



Österreich	0810 000 205	€0.07 pro Minute
België/Belgique	078250145	€0.03 Per minuut/Par minute
България	+3592 489 99 96	Местен разговор
Hrvatska	01 6403 776	Lokalni poziv
Česká republika	800142840	Bezplatný hovor
Danmark	3525 8759	Lokalt opkald
Estonia	6008600	kohalik kõne tariifi
Suomi	09 2311 3415	paikallispuhelu
France	0805 025 510	numéro sans frais
Deutschland	0800 000 7520	gebührenfreier Anruf
Ελλάδα	0 0800 3122 1280	Κλήση χωρίς χρέωση
Magyarország	0680018189	Ingyenes hívás
Hrvatska	0800 222778	free
Ireland	North 0800 055 6882 South 1800-PHILIPS 7445477	free
Italia	800 088774	Numero Verde
Қазақстан	+7 727 250 66 17	local
Latvia	52737691	local
Lithuania	67228896	local
Luxemburg/Luxembourg	40 6661 5644	Ortsgespräch/Appel local
Nederland	0800 0230076	Gratis nummer
Norge	22 70 81 11	Lokalsamtale
Polska	(022) 349-15-05	Monitory i akcesoria komputerowe,
Portugal	800 780 903	Chamada Grátis
România	0800-894910 0318107125	Apel gratuit Apel local
Россия	(495) 961-1111	0.15 USD/minute
Србија	+381 114 440 841	Lokalni poziv
Slovensko	0800 004537	Bezplatný hovor
Slovenija	00386 12 80 95 00	lokalni klic
España	900 800 655	Teléfono local gratuito solamente para clientes en España
Sverige	08 5792 9100	Lokalsamtal
Suisse/Schweiz/Svizzera	0844 800 544	Schweizer Festnetztarif
Türkiye	0800 261 3302	Şehiriçi arama
United Kingdom	General No: 0800 331 6015 General National Rate No: 0870 911 0036	free National rate
Україна	8-800-500-69-70	Місцевий виклик

Contents

1 Notice	2
2 Important	4
3 Your product	7
Product overview	7
4 Use your product	9
Switch your TV on/off or to standby	9
Switch channels	9
Adjust TV volume	10
Watch connected devices	10
Browse Net TV (selected models only)	11
Use teletext	12
Use Ambilight (selected models only)	12
5 Use more of your product	14
Change language settings	14
Access the home menu	14
Access the options menu	15
Access the setup menu	15
Change picture and sound settings	16
Change Ambilight settings (selected models only)	20
Use advanced teletext features	21
Create and use lists of favourite channels	23
Reorder/rearrange and rename channels	23
Hide and unhide channels	24
Use the Electronic Programme Guide	25
Use timers	26
Use child and rating locks	27
Use subtitles	28
Use the TV clock	29
View photos, play music and watch video	30
Listen to digital radio channels	32
Update the TV software	32
Change TV preferences	33
Start a TV demo	34
Reset the TV to factory settings	34
Use universal remote control (selected models only)	34

6 Install channels	36
Automatically install channels	36
Manually install channels	37
Manually update the channel list	38
Test digital reception	39
Change startup message settings	39
7 Connect devices	40
Back connectors	40
Side connectors	42
Connect a computer	43
Connect to a computer network (selected models only)	45
Use a Conditional Access Module	49
Assign a channel decoder	50
Use Philips EasyLink	50
Use a Kensington lock	52
8 Product information	53
Supported display resolutions	53
Multimedia	53
Tuner/Reception/Transmission	54
Remote control	54
Power	54
Supported TV mounts	54
EPG information	55
9 Troubleshooting	56
General TV issues	56
TV channel issues	56
Picture issues	56
Sound issues	57
HDMI connection issues	57
USB connection issues	58
Computer connection issues	58
Contact us	58
10 Universal remote control codes	59
11 Index	72

1 Notice

2009 © Koninklijke Philips Electronics N.V. All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V. or their respective owners. Philips reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly. The material in this manual is believed adequate for the intended use of the system. If the product, or its individual modules or procedures, are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. Philips warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied.

Warranty

- Risk of injury, damage to TV or void of warranty! Never attempt to repair the TV yourself.
- Use the TV and accessories only as intended by the manufacturer.
- The caution sign printed on the back of the TV indicates risk of electric shock. Never remove the TV cover. Always contact Philips Customer Support for service or repairs.



- Any operation expressly prohibited in this manual, or any adjustments and assembly procedures not recommended or authorised in this manual shall void the warranty.

Pixel characteristics

This LCD product has a high number of colour pixels. Although it has effective pixels of 99.999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

Open source software

This television contains open source software. Philips hereby offers to deliver or make available, upon request, for a charge no more than the cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code on a medium customarily used for software interchange. This offer is valid for a period of 3 years after the date of purchase of this product. To obtain the source code, write to:

Development Manager
Technology & Development
Philips Consumer Lifestyle
620A Lorong 1, Toa Payoh
TP1, Level 3
Singapore 319762

Compliance with EMF

Koninklijke Philips Electronics N.V. manufactures and sells many products targeted at consumers which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.

One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.

Philips is committed to develop, produce and market products that cause no

adverse health effects. Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.

Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.

Mains fuse (UK only)

This TV is fitted with an approved moulded plug. Should it become necessary to replace the mains fuse, this must be replaced with a fuse of the same value as indicated on the plug (example 10A).

- 1 Remove fuse cover and fuse.
- 2 The replacement fuse must comply with BS 1362 and have the ASTA approval mark. If the fuse is lost, contact your dealer in order to verify the correct type.
- 3 Refit the fuse cover.

In order to maintain conformity to the EMC directive, the mains plug on this product must not be detached from the mains cord cable.

Copyright



VESA, FDMI and the VESA Mounting Compliant logo are trademarks of the Video Electronics Standards Association.

Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

® Kensington and Micro Saver are registered US trademarks of ACCO World Corporation with issued registrations and pending applications in other countries throughout the world.



DLNA®, the DLNA logo and DLNA 1.0 Certified are trademarks, service marks, or certification marks of the Digital Living Network Alliance.

All other registered and unregistered trademarks are the property of their respective owners.



Manufactured under licence from BBE Sound, Inc. Licensed by BBE, Inc under one or more of the following US patents: 5510752, 5736897. BBE and BBE symbol are registered trademarks of BBE Sound Inc.

2 Important

Read and understand all instructions before you use your TV. If damage is caused by failure to follow instructions, the warranty does not apply.

Safety

Risk of electric shock or fire!

- Never expose the TV to rain or water. Never place liquid containers, such as vases, near the TV. If liquids are spilt on or into the TV, disconnect the TV from the power outlet immediately. Contact Philips Consumer Care to have the TV checked before use.
- Never place the TV, remote control or batteries near naked flames or other heat sources, including direct sunlight. To prevent the spread of fire, keep candles or other flames away from the TV, remote control and batteries at all times.



- Never insert objects into the ventilation slots or other openings on the TV.
- When the TV is swivelled ensure that no strain is exerted on the power cord. Strain on the power cord can loosen connections and cause arcing.

Risk of short circuit or fire!

- Never expose the remote control or batteries to rain, water or excessive heat.
- Avoid force coming onto power plugs. Loose power plugs can cause arcing or fire.

Risk of injury or damage to the TV!

- Two people are required to lift and carry a TV that weighs more than 25 kg.

- When stand mounting the TV, use only the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the combined weight of the TV and the stand.
- When wall mounting the TV, use only a wall mount that can support the weight of the TV. Secure the wall mount to a wall that can support the combined weight of the TV and wall mount. Koninklijke Philips Electronics N.V. bears no responsibility for improper wall mounting that result in accident, injury or damage.

Risk of injury to children!

Follow these precautions to prevent the TV from toppling over and causing injury to children:

- Never place the TV on a surface covered by a cloth or other material that can be pulled away.
- Ensure that no part of the TV hangs over the edge of the surface.
- Never place the TV on tall furniture (such as a bookcase) without anchoring both the furniture and TV to the wall or a suitable support.
- Educate children about the dangers of climbing on furniture to reach the TV.

Risk of overheating!

Never install the TV in a confined space. Always leave a space of at least 4 inches or 10 cm around the TV for ventilation. Ensure curtains or other objects never cover the ventilation slots on the TV.

Risk of damage to the TV!

Before you connect the TV to the power outlet, ensure that the power voltage matches the value printed on the back of the TV.

Never connect the TV to the power outlet if the voltage is different.

Risk of injury, fire or power cord damage!

- Never place the TV or any objects on the power cord.
- To easily disconnect the TV power cord from the power outlet, ensure that you have full access to the power cord at all times.

- When you disconnect the power cord, always pull the plug, never the cable.
- Disconnect the TV from the power outlet and aerial before lightning storms. During lightning storms, never touch any part of the TV, power cord or aerial cable.

Risk of hearing damage!

Avoid using earphones or headphones at high volumes or for prolonged periods of time.

Low temperatures

If the TV is transported in temperatures below 5°C, unpack the TV and wait until the TV temperature matches room temperature before connecting the TV to the power outlet.

Screen care

- Avoid stationary images as much as possible. Stationary images are images that remain on-screen for extended periods of time. Examples include: on-screen menus, black bars and time displays. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.
- Unplug the TV before cleaning.
- Clean the TV and frame with a soft, damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the TV.
- Risk of damage to the TV screen! Never touch, push, rub or strike the screen with any object.
- To avoid deformations and colour fading, wipe off water drops as soon as possible.

Disposal of your old product and batteries



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.



When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by the European Directive 2002/96/EC. Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste.

Correct disposal of your old product helps to prevent potential negative consequences for the environment and human health.



Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed with normal household waste.

Please inform yourself about the local rules on separate collection of batteries because correct disposal helps to prevent negative consequences for the environmental and human health.

ECO-Green



- High energy efficiency
- Low standby power
- Designed to facilitate recycling

Philips continuously focuses on lowering the environmental impact of its innovative consumer products. We aim our efforts towards environmental improvements during manufacturing, reduction of harmful substances, energy-efficient use, end-of-life instructions and product recycling. Thanks to our environmental effort, this TV has been awarded the European Ecolabel –the flower– www.ecolabel.eu

You can find detailed information on standby energy consumption, warranty policy, spare parts and recycling of this TV on the Philips website for your country at www.philips.com. This TV has features that contribute to energy-efficient use. This TV was awarded the European Ecolabel for its environmental qualities.

Energy efficiency features

- **Ambient light sensor**
To save energy, the built-in Ambient light sensor lowers the brightness of the TV screen when the surrounding light darkens.
- **Energy saving**
The **[Standard]** setting of the TV combines several TV settings that result in saving energy. See the **[Smart settings]** in the **[Setup]** menu.

- **Low standby power consumption**
The class-leading and highly advanced power circuitry brings down the power consumption of the TV to an extremely low level, without losing out on the constant standby functionality.

Power management

The advanced power management of this TV ensures the most efficient use of its energy. You can check how your personal TV settings, the level of brightness in current onscreen pictures and the surrounding light conditions determine the relative power consumption. Press **DEMO**, then select **[Active Control]** and press **OK**. Your current TV setting is highlighted. You can select another setting to check the corresponding values.

End of use

To inform yourself on the correct disposal of the TV and batteries, refer to 'Disposal of your old product and batteries' in the user manual (see 'Disposal of your old product and batteries' on page 5).

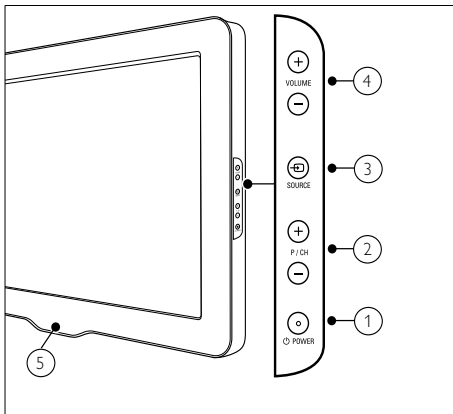
3 Your product

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers; register your product at www.philips.com/welcome.

Product overview

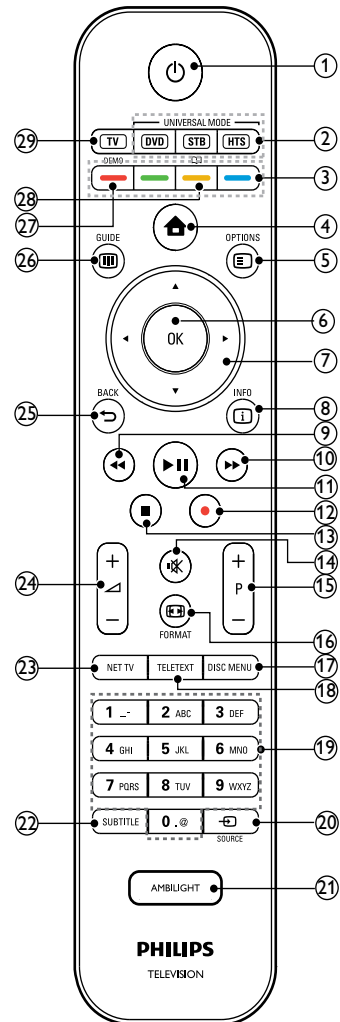
This section gives you an overview of commonly used controls and functions.

Side controls and indicators



- ① **POWER:** Switches the product on or off. The product is not powered off completely unless it is physically unplugged.
- ② **P/CH +/-:** Switches to the next or previous channel.
- ③ **SOURCE:** Selects connected devices.
- ④ **VOLUME +/-:** Increases or decreases volume.
- ⑤ **LightGuide:** Front LED indicator

Remote control



- ① **(Standby-On)**
 - Switches the product to standby if it is on.
 - Switches the product on if it is on standby.

- ② **Universal control buttons (DVD/STB/HTS)**
*Controls other devices such as a DVD player, set-top box or a home theatre system from Philips or other brands.
- ③ **Colour buttons**
Selects tasks or options.
- ④ **🏠 (Home)**
Toggles the home menu on or off.
- ⑤ **☰ OPTIONS**
Accesses options relating to the current activity or selection.
- ⑥ **OK**
Confirms an entry or selection.
- ⑦ **⬅➡⬅➡ (Navigation buttons)**
Navigates through the menus.
- ⑧ **ℹ INFO**
Displays programme information, if available.
- ⑨ **⏮ (Backward)**
**Searches backward.
- ⑩ **⏭ (Forward)**
**Searches forward.
- ⑪ **⏸ (Play/Pause)**
**Starts, pauses or resumes playback.
- ⑫ **● (Record)**
**Starts or stops video recording.
- ⑬ **■ (Stop)**
**Stops playback.
- ⑭ **🔇 (Mute)**
Mutes or restores audio output.
- ⑮ **P +/- (Program +/-)**
Switches to the next or previous channel.
- ⑯ **🖼 FORMAT**
Selects a picture format.
- ⑰ **DISC MENU**
Accesses or exits the disc menu.
- ⑱ **TELETEXT**
Toggles teletext on or off.

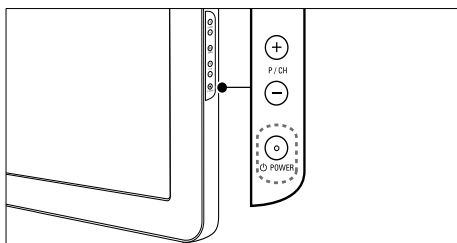
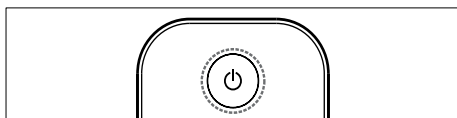
- ⑲ **0-9 (Numeric buttons)**
Selects a channel or setting.
- ⑳ **📶 SOURCE**
Selects connected devices.
- ㉑ **AMBILIGHT**
*Switches Ambilight on or off.
- ㉒ **SUBTITLE**
Enables or disables subtitles.
- ㉓ **NET TV**
*Accesses Net TV.
- ㉔ **⏴ +/- (Volume +/-)**
Increases or decreases volume.
- ㉕ **⏮ BACK**
Returns to the previous menu.
- ㉖ **📖 GUIDE**
Accesses or exits the Electronic Programme Guide (EPG).
- ㉗ **DEMO**
Toggles the demonstration menu on or off.
- ㉘ **📖**
*Accesses the electronic user manual.
- ㉙ **TV**
Switches back to the aerial source.

*This feature is available in selected models only.
**Controls the connected EasyLink-compliant device.

4 Use your product

This section helps you perform basic operations (see 'Use more of your product' on page 14).

Switch your TV on/off or to standby



To switch on

- If the front LED indicator is off, press **POWER** at the side of the TV.
- If the front LED indicator is red, press **Standby-On** on the remote control.

To switch to standby

- Press **Standby-On** on the remote control.
 - ↳ The front LED indicator switches to red.

To switch off

- Press **POWER** at the side of the TV.
 - ↳ The front LED indicator switches off.



Tip

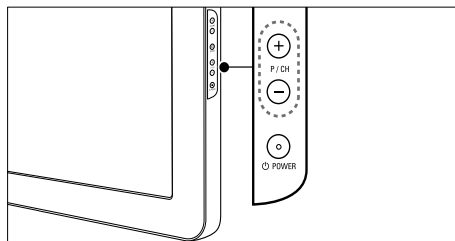
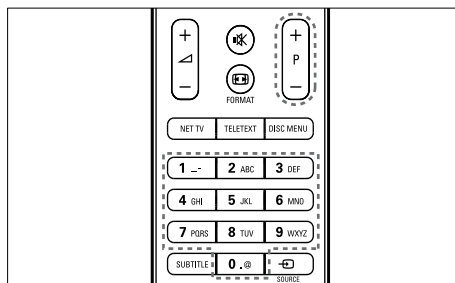
- Though your TV consumes very little power when in standby, energy continues to be consumed. When not in use for an extended period of time, disconnect the TV power cable from the power outlet.



Note

- If you cannot locate your remote control and want to switch on the TV from standby, press **P/CH +/-** on the side of the TV.

Switch channels



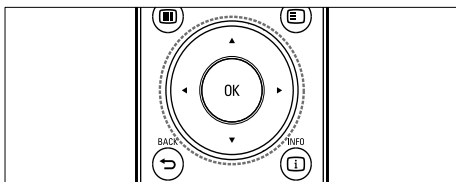
- Press **P +/-** on the remote control or **P/CH +/-** on the side of the TV.
- Enter a channel number using the **Numeric buttons**.
- Use the channel grid (see 'Switch channels with the channel grid' on page 10).

Note

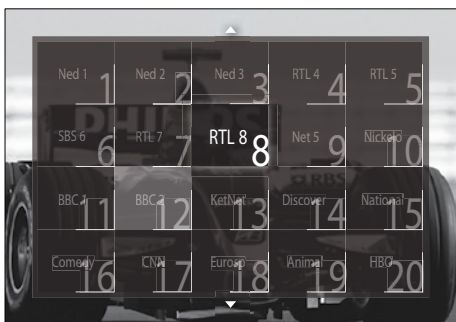
- When you use a favourite list, you can only select those channels in the list.

Switch channels with the channel grid

The channel grid allows you to view all available channels in a grid format.

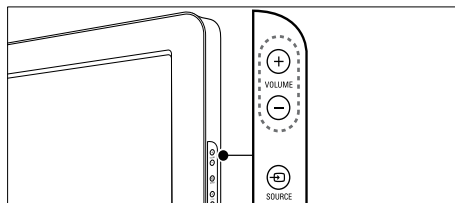
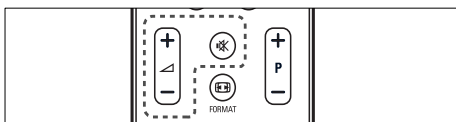


- Press **OK**.
→ The channel grid appears.



- Press the **Navigation buttons** to select a channel.
- Press **OK** to confirm your choice.
→ The selected channel appears.

Adjust TV volume



To increase or decrease volume

- Press **▲ +/-**.
- Press **VOLUME +/-** on the side of the TV.

To mute or unmute sound

- Press **MUTE** to mute the sound.
- Press **MUTE** again to restore the sound.

Note

- Use the **[Sound]** menu to adjust headphone volume (see 'Adjust sound settings' on page 19).

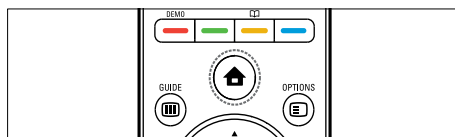
Watch connected devices

Note

- For easy access, add new devices to the home menu before selecting them.

Add a device to the home menu

Connect and switch on devices before adding them to the home menu.



- Press **Home**.
→ The home menu appears.



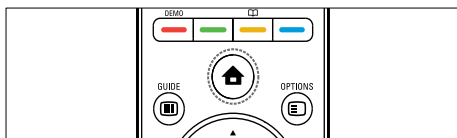
- 2 Press the **Navigation buttons** to select **[Add new device]**.
- 3 Press **OK**.
 ↳ A message appears with **[Start]** selected, prompting you to start the add new device guide.
- 4 Press **OK**.
 ↳ Follow the on-screen instructions to select the type of device and where it is connected. When the guide is complete, a new device icon is added to the home menu.



Tip

- To avoid screen clutter, remove devices from the home menu when they are no longer connected (see 'Remove devices from the home menu' on page 15).

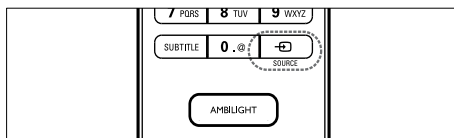
Select a device via the home menu



- 1 Press **⬆ (Home)**.
 ↳ The home menu appears.
- 2 Press the **Navigation buttons** to select a device.

- 3 Press **OK** to confirm your choice.
 ↳ The TV switches to the selected device.

Select a device via the source list



- 1 Press **⬆ SOURCE**.
 ↳ The source list appears.
- 2 Press the **Navigation buttons** to select a device.
- 3 Press **OK** to confirm your choice.
 ↳ The TV switches to the selected device.

Browse Net TV (selected models only)

With the TV connected to the Internet, you can use Net TV to access videos, pictures, music, information, games and other online services.



Note

- Koninklijke Philips Electronics N.V. bears no responsibility for content provided by Net TV service providers.

Access Net TV



Note

- Connect the TV to a computer network before accessing Net .

- 1 Press **NET TV**.
 ↳ The Net TV home page appears.

Navigate Net TV

Press:

- **Navigation buttons** to navigate Net TV or web pages
- **OK** to view or select an item
- **↶ BACK** to go back to a previous page
- **🏠 (Home)** to exit Net TV and go back to the home menu

Mark favourite Net TV pages

You can mark Net TV pages or services as favourites for easy access.

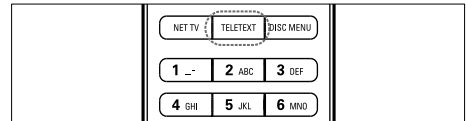
- 1 In Net TV, press the **Navigation buttons** to select **[Mark as favourite]**.
- 2 Press **OK**.
- 3 Press the **Navigation buttons** to navigate to the page to mark, then press **OK**.
- 4 When done, press the **Navigation buttons** to select **[Done]** then press **OK**.

Clear browsing history

Clear browsing history to remove passwords, cookies and browsing data from your TV.

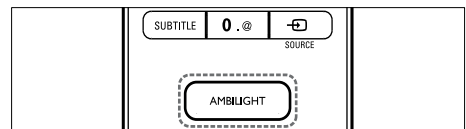
- 1 Press **🏠 (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Installation] > [Clear Net TV memory]**.
↳ Passwords, cookies and other browsing history are removed from the TV.

Use teletext



- 1 Press **TELETEXT**.
↳ The teletext screen appears.
- 2 Select a page by:
 - Entering the page number with the **Numeric buttons**.
 - Pressing **P +/-** or the **Navigation buttons** to view the next or previous page.
 - Pressing the **Colour buttons** to select a colour coded item.
 - Pressing **↶ BACK** to return to a previously viewed page.
- 3 Press **TELETEXT** to exit teletext.

Use Ambilight (selected models only)



- 1 Press **AMBILIGHT**.
↳ Ambilight switches on.
- 2 Press **AMBILIGHT** again to switch off Ambilight.



Tip

- Use Ambilight as a lounge light by pressing **AMBILIGHT** when the TV is in standby. Press **OK** to change colours.

Set Ambilight active mode

Ambilight active mode allows you to set the speed at which Ambilight responds to on-screen images.

- 1 Press and hold **AMBILIGHT** for at least three seconds.
↳ The **[Ambilight active mode]** bar appears.
- 2 Press the **Navigation buttons** to move the slider towards **[Relaxed]** for smoother Ambilight responsiveness; or towards **[Dynamic]** for faster responsiveness
- 3 Press **↩ BACK** to exit.



Note

- You can only change the Ambilight active mode setting if Ambilight **[Colour]** is set to **[Active mode]**. More information about this and other advanced Ambilight features are .

5 Use more of your product

Change language settings

Note

- Skip this step if your language settings are correct.

- 1 When watching TV, press **⬆** (**Home**).
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Installation] > [Languages] > [Menu language]**.
↳ A list of languages appears.
- 4 Press the **Navigation buttons** to select a menu language.
- 5 Press **OK** to confirm your choice.
↳ The selected language is applied to the menu.

In addition to **[Menu language]**, you can configure the following language settings via the **[Languages]** menu (digital channels only):

Languages	Menu language	Čeština
Channel installation	Primary audio	Dansk
Preferences	Secondary audio	Deutsch
Decoder	Primary subtitles	Ελληνικός
Clock	Secondary subtitles	English
Factory reset	Primary teletext	Español
	Secondary teletext	Français
	Hearing impaired	Hrvatski

- **[Primary audio]/[Secondary audio]**
Select primary and secondary audio languages for digital channels.
- **[Primary subtitles]/[Secondary subtitles]**
Select primary and secondary subtitle languages for digital channels.
- **[Primary teletext]/[Secondary teletext]**
Select primary and secondary teletext languages for digital channels.
- **[Hearing impaired]**
Select **[On]** to display subtitles with primary and secondary audio languages.
- **[Visually impaired]**
If available, select to hear additional audio commentary for the visually impaired through the options: **[Speakers]**, **[Headphones]** or **[Speakers + headphones]**. Select **[Off]** to disable the feature.
- **[Preferred audio format]**
Select **[Advanced]** for best sound reproduction from home theatre systems. Select **[Standard]** for best sound reproduction from the TV speakers and basic sound systems.

Access the home menu

The home menu gives you easy access to connected devices, picture and sound settings as well as other useful features.

- 1 Press **⬆** (**Home**).
↳ The home menu appears.



2 Press the **Navigation buttons** to select a home menu item:

- **[Watch TV]** Switches back to the aerial source if another source is selected.
- **[Setup]** Accesses menus that allow you to change picture, sound and other TV settings.
- **[Add new device]** Adds new devices to the home menu.
- **[Browse USB]** If a USB storage device is connected, accesses the content browser.
- **[Browse PC network]** If a PC network is available, accesses the content browser.
- **[Browse Net TV]** Accesses Net TV.

3 Press **OK** to confirm your choice.



Tip

- Press **▲ (Home)** at any time to exit the home menu.
- Press **⏮ BACK** at any time to exit the **[Setup]** menu.
- Press **⏻ OPTIONS** at any time to exit an options menu.

Remove devices from the home menu

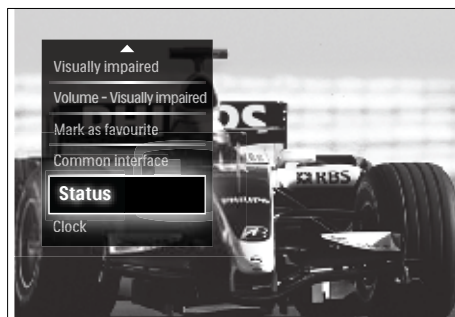
If a device is no longer connected to the TV, remove it from the home menu.

- 1 Press **▲ (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select a device to remove.
- 3 Press **OPTIONS**.
↳ A list appears, with **[Remove this device]** selected.
- 4 Press **OK**.
↳ A message appears, prompting you to remove the device.
- 5 Press **OK**.
↳ The home menu appears, with the device removed.

Access the options menu

The options menu gives you quick access to the picture and sound experience bar and other useful features such as **[Status]**. The **[Status]** menu gives you an overview of current TV information.

- 1 When watching TV, press **⏻ OPTIONS**.
↳ The options menu appears.



- 2 Press the **Navigation buttons** to select an option.
- 3 Press **OK**.
↳ The menu of the selected option appears.

Access the setup menu

The **[Setup]** menu gives you access to picture, sound and other TV settings.

- 1 Press **▲ (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.

Change picture and sound settings

Change picture and sound settings to suit your preferences. You can apply pre-defined settings or change settings manually.

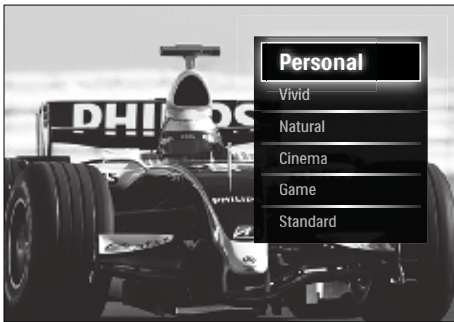
Note

- The flexibility to change settings is limited if the TV location is set to **[Shop]** mode. Set the TV location to **[Home]** mode to access all TV settings (see 'Change TV preferences' on page 33).

Use smart settings

Use smart settings to apply pre-defined picture and sound settings.

- 1 When watching TV, press **⬆ (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Smart settings]**.
- 5 Press **OK**.
↳ A list of smart settings appears.



- 6 Press the **Navigation buttons** to select:
 - **[Personal]** Sets the TV to your personal preferences set in the **[Picture]** and **[Sound]** menus in **[Setup]**.

- **[Vivid]** Rich and dynamic settings, ideal for daylight use.
- **[Natural]** A natural picture setting.
- **[Cinema]** Ideal settings for watching movies.
- **[Game]** Ideal settings for gaming.
- **[Standard]** The most energy conscious settings. Factory standard settings.

- 7 Press **OK** to confirm your choice.
↳ The smart setting is applied.

- 8 Press **↶ BACK** to exit or press **⬆ (Home)** to go back to the home menu.

Note

- **[Smart settings]** is also accessible via the **[Picture and sound]** experience bar (see 'Use the picture and sound experience bar' on page 17).

Use settings assistant

Use the settings assistant to guide you through the best picture and sound settings.

- 1 When watching TV, press **⬆ (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Picture]** > **[Settings assistant]**.
- 5 Press **OK**.
↳ A message appears prompting you to start the settings assistant.
- 6 Press the **Navigation buttons** to select **[Start]**.
- 7 Press **OK**.
↳ Follow the on-screen instructions to choose your preferred picture and sound settings.

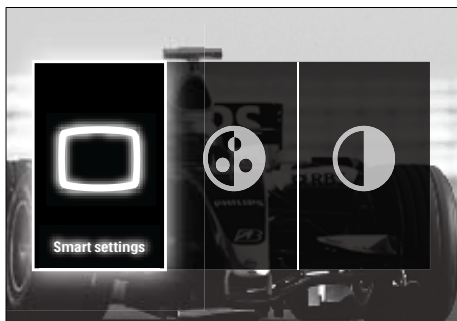
Use the picture and sound experience bar

Use the **[Picture and sound]** experience bar to access frequently used picture and sound settings.

Note

- All picture settings are available via the **[Picture]** menu (see 'Manually adjust picture settings' on page 17).
- All sound settings are available via the **[Sound]** menu (see 'Adjust sound settings' on page 19).

- 1 When watching TV, press **⏻** **OPTIONS**.
↳ The options menu appears.
- 2 Press the **Navigation buttons** to select **[Picture and sound]**.
↳ The **[Picture and sound]** experience bar appears.



- 3 Press the **Navigation buttons** to select a picture or sound setting to adjust.
- 4 Press **OK**.
↳ The picture or sound setting menu appears.
- 5 Press the **Navigation buttons** to adjust the picture or sound setting.
- 6 Press **OK** to confirm your choice.
↳ The picture or sound setting is applied and the **[Picture and sound]** experience bar reappears.
- 7 Press **↶** **BACK** to exit.

The following settings can be configured via the **[Picture and sound]** experience bar.

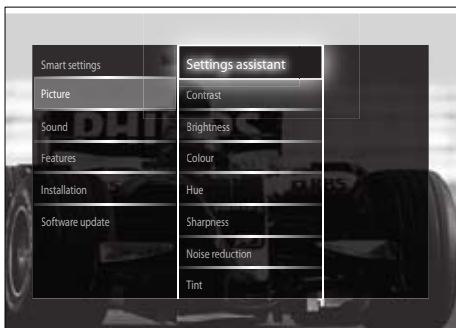
- **[Smart settings]** Applies pre-defined picture and sound settings.
- **[Colour]** Adjusts colour saturation.
- **[Contrast]** Adjusts the intensity of bright areas, keeping dark areas unchanged.
- **[Bass]** Adjusts the bass level.
- **[Treble]** Adjusts the treble level.
- **[TV speakers]** Turns on or off TV speakers. If **[Automatic (EasyLink)]** is selected, the TV speakers are switched off when content from an EasyLink-compliant home theater system is detected.
- **[Ambilight active mode]** Sets an Ambilight setting between relaxed and dynamic levels. This feature is only available when Ambilight **[Colour]** is set to **[Active mode]**.
- **[Ambilight]** Turns Ambilight on or off.
- **[Ambilight brightness]** Changes the light output from Ambilight.

Note

- **[Bass]** and **[Treble]** are not available if **[TV speakers]** are set to **[Off]**.

Manually adjust picture settings

- 1 When watching TV, press **⬆** **(Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Picture]** menu appears.
- 5 Press **OK**.
↳ The **[Picture]** menu appears.



- 6 Press the **Navigation buttons** and **OK** to select and adjust a picture setting.
- 7 Press **↶ BACK** to exit.

The following picture settings can be configured. Depending on the format of the picture source, some picture settings are not available.

- **[Settings assistant]** Use settings assistant to guide you through the best picture and sound settings.
- **[Contrast]** Adjusts the intensity of bright areas, keeping dark areas unchanged.
- **[Brightness]** Adjusts the intensity and details of dark areas.
- **[Colour]** Adjusts colour saturation.
- **[Hue]** Compensates colour variations in NTSC encoded transmissions.
- **[Sharpness]** Adjusts the level of sharpness in image details.
- **[Noise reduction]** Filters and reduces noise in an image.
- **[Tint]** Adjusts the colour balance in an image.

Note

- Before you adjust **[Custom tint]**, select **[Tint] > [Custom]**, then press **OK** to enable the option.
- **[Custom tint]** Make a customised tint setting.
- **[Pixel Plus HD]/[Pixel Precise HD]** Gives access to advanced picture settings:

- **[Perfect Natural Motion]** Reduces field and line flicker to display movement smoothly.
- **[100Hz Clear LCD]** Sets the TV refresh rate to a maximum of 100Hz to provide superior motion sharpness, better black level, high contrast with a flicker-free, quiet image and a larger viewing angle.
- **[Advanced sharpness]** Enables superior sharpness, especially on lines and contours in the picture.
- **[Dynamic contrast]** Automatically enhances contrast in an image.
- **[Dynamic backlight]** Adjusts the brightness of the TV backlight to match lighting conditions.
- **[MPEG artefact reduction]** Smoothes out transitions on digital pictures. You can switch this feature on or off.
- **[Colour enhancement]** Makes colours more vivid and improves the resolution of details in bright colours. You can switch this feature on or off.
- **[PC mode]** Enables picture settings adjustment when a PC is connected to the TV via HDMI. If enabled, you can select **[Picture format] > [Unscaled]** which provides maximum detail for display of PC content.
- **[Light sensor]** Dynamically adjusts picture settings to match lighting conditions.
- **[Picture format]** Changes the picture format.
- **[Auto format mode]** Sets the picture format to automatically fill or automatically zoom into the screen.

Tip

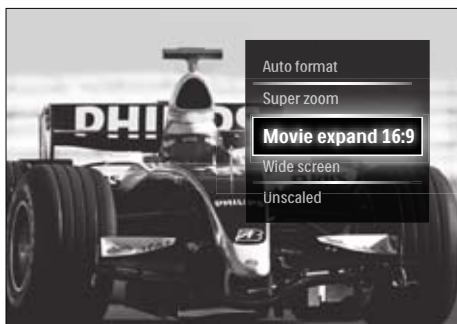
- If **[Auto format mode]** is disabled, select **[Picture format] > [Auto format]** to enable the option.
- **[Picture shift]** Adjusts the position of the picture.

Note

- **[Colour]** and **[Contrast]** settings are also accessible via the **[Picture and sound]** experience bar (see 'Use the picture and sound experience bar' on page 17).

Change picture format

- 1 Press **FORMAT**.
 ↳ A list of picture formats appears.



- 2 Press the **Navigation buttons** to select a picture format.
- 3 Press **OK** to confirm your choice.
 ↳ The selected picture format is activated.

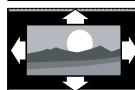
Tip

- Picture formats are also accessible via the **[Setup]** menu (see 'Access the setup menu' on page 15).

The following picture formats can be selected.

Note

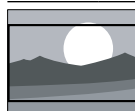
- Depending on the picture source, some picture formats are not available and will not be seen on-screen.
- Before you adjust **[Unscaled]**, select **[Picture]** > **[PC mode]** > **[On]**, then press **OK** to enable the option.



[Auto format] Enlarges the picture to fill the screen (subtitles remain visible). Recommended for minimal screen distortion (but not for HD or PC).



[Super zoom] Removes the black bars on the sides of 4:3 broadcasts. Not recommended for HD or PC.



[Movie expand 16:9] Scales the classic 4:3 format to 16:9. Not recommended for HD or PC.



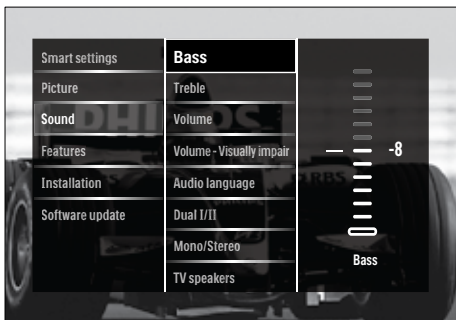
[Wide screen] Stretches the classic 4:3 format to 16:9.



[Unscaled] Provides maximum detail for PC. Only available when **[PC mode]** is enabled in the **[Picture]** menu.

Adjust sound settings

- 1 When watching TV, press **Home**.
 ↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
 ↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Sound]** menu appears.
- 5 Press **OK**.
 ↳ The **[Sound]** menu appears.



- 6 Press the **Navigation buttons** and **OK** to select and adjust a sound setting.
- 7 Press **↶ BACK** to exit.

The following sound settings can be configured. Depending on the broadcast, some sound settings may not be available.

- **[Bass]** Adjusts the bass level.
- **[Treble]** Adjusts the treble level.
- **[Volume]** Adjusts the volume.

Note

- Before you adjust **[Volume - Visually impaired]**, enable **[Visually impaired]**. When watching TV, press **Ⓞ OPTIONS** and select **[Visually impaired]**. Select a preferred option and press **OK**.
- **[Volume - Visually impaired]** Sets the mix of visually impaired audio with regular audio. When available, visually impaired audio includes audio descriptions of on-screen action. You can also enable this by pressing **AD (Audio Descriptor)**.
- **[Audio language]** (Digital channels only) Selects between audio languages when multiple languages are broadcast.
- **[Dual I-II]** (Analogue channels only) Selects between audio languages when dual sound is broadcast.
- **[Mono/Stereo]** Selects between mono or stereo if stereo is broadcast.
- **[TV speakers]** Turns on or off TV speakers. If **[Automatic (EasyLink)]** is selected, the TV speakers are switched off when content from an EasyLink-

compliant home theater system is detected.

- **[Surround]** Enables spatial sound.
- **[Headphones volume]** Adjusts headphone volume.
- **[Delta volume]** Levels out volume differences between channels or connected devices. Switch to the connected device before you change the delta volume.
- **[Balance]** Adjusts the balance of the right and left speakers to best suit your listening position.
- **[Auto volume leveling]** Automatically reduces sudden volume changes, for example, when switching channels. When enabled, this produces a more consistent audio volume.

Note

- **[Bass]**, **[Treble]** and **[TV speakers]** settings are also accessible via the **[Picture and sound]** experience bar (see 'Use the picture and sound experience bar' on page 17). When supported, **[Audio language]** and **[Volume - Visually impaired]** are directly accessible from the options menu.

Change Ambilight settings (selected models only)

You can adjust Ambilight colour, brightness and mode to your taste.

- 1 When watching TV, press **⬆ (Home)**.
↪ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↪ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Ambilight]**.
- 5 Press **OK**.
↪ The **[Ambilight]** menu appears.

- 6 Press **Navigation buttons** and **OK** to select and adjust an Ambilight setting.
- 7 Press **↶ BACK** to exit.

The following Ambilight settings can be configured:

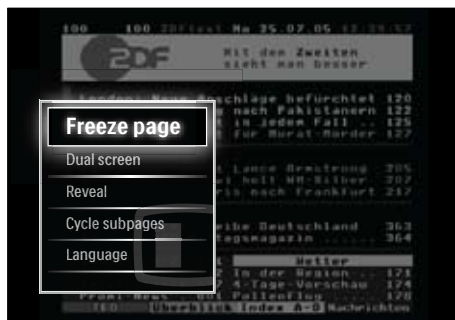
- **[Ambilight]** Turns Ambilight on or off.
- **[Ambilight active mode]** Sets an Ambilight setting between relaxed and dynamic levels. This feature is only available when Ambilight **[Colour]** is set to **[Active mode]**.
- **[Brightness]** Changes the light output from Ambilight.
- **[Colour]** Selects a predefined colour setting or a customised colour setting.
- **[Custom colour]** Allows fine tuning of predefined colours.
- **[Separation]** Sets the difference in Ambilight color level between the sides of the TV. Setting this feature off gives a dynamic, uniform Ambilight color.

Use advanced teletext features

Access the teletext options menu

Most of the advanced teletext features are accessed via the teletext options menu.

- 1 Press **TELETEXT**.
↳ The teletext screen appears.
- 2 Press **⏏ OPTIONS**.
↳ The teletext options menu appears.



- 3 Press the **Navigation buttons** to select an option:
 - **[Freeze page]** Freezes the current page.
 - **[Dual screen]/[Full screen]** Enables and disables dual screen teletext, which splits the current channel or source to the left of the screen, with teletext on the right.
 - **[Reveal]** Hides or reveals hidden information on a page, such as solutions to riddles or puzzles.
 - **[Cycle subpages]** Cycles through subpages automatically if subpages are available.
 - **[Language]** Switches to a different language group to display a language correctly when that language uses a different character set.
- 4 Press **OK** to confirm your choice.
↳ The teletext screen appears.



Tip

- Press **⏏ OPTIONS** at any time to exit the options menu.

Select teletext subpages

A teletext page can hold several subpages. Subpages are displayed on a bar next to the main page number.



Note

- Enable cycling of subpages before selecting subpages (see 'Access the teletext options menu' on page 21).

- 1 Press **TELETEXT**.
↳ The teletext screen appears.
- 2 Select a teletext page.
- 3 Press ◀ or ▶ to select a subpage.
↳ The subpage appears.

Select T.O.P. teletext broadcasts

Table Of Pages (T.O.P.) teletext broadcasts allow you to jump from one subject to another without using page numbers. T.O.P. teletext is not broadcast on all TV channels.

- 1 Press **TELETEXT**.
↳ The teletext screen appears.
- 2 Press **INFO**.
↳ The T.O.P. overview appears.
- 3 Press the **Navigation buttons** to select a subject.
- 4 Press **OK** to confirm your choice.
↳ The teletext page appears.

Search teletext

Search a teletext page by subject or word.

- 1 Press **TELETEXT**.
↳ The teletext screen appears.
- 2 Press **OK** to highlight the first word or number.
- 3 Press the **Navigation buttons** to skip to the word or number to search.
- 4 Press **OK** to begin the search.

- 5 Press ▲ until no word or number is highlighted to exit the search.

Enlarge teletext pages

For more comfortable reading, you can enlarge the teletext page.

- 1 Press **TELETEXT**.
↳ The teletext screen appears.
- 2 Press  **FORMAT**.
↳ The teletext screen is enlarged.
- 3 Press:
 - the **Navigation buttons** to move around the enlarged screen.
 -  **FORMAT** to return to normal screen size.

Use Teletext 2.5

Teletext 2.5 offers more colours and better graphics than normal teletext. If Teletext 2.5 is broadcast by a channel, it is switched on by default.

- 1 When watching TV, press  (**Home**).
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Installation] > [Preferences] > [Teletext 2.5] > [On]** or **[Off]**.
↳ Teletext 2.5 is enabled or disabled.
- 5 Press  **BACK** to exit or press  (**Home**) to go back to the home menu.

Create and use lists of favourite channels

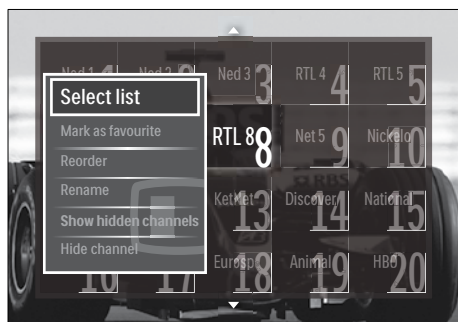
You can create lists of your preferred TV channels so that you can find those channels easily.

Note

- Digital radio stations can also be added to favourite lists, if supported.

View only channels in a favourite list, or view all channels if a favourite list is currently selected.

- When watching TV, press **OK**.
↳ The channel grid appears.
- Press **⏏** **OPTIONS**.
↳ The options menu appears.



- Press the **Navigation buttons** to select **[Select list]**.
- Press **OK**.
↳ The **[Select list]** menu appears.
- Press the **Navigation buttons** to select:
 - [All]** Displays all channels.
 - [Favourites]** Displays channels in a selected favourite list.
 - [Radio]** Displays radio channels only.
 - [Digital]** Displays digital channels only.
 - [Analogue]** Displays analogue channels only.
- Press **OK** to confirm your choice.
↳ The selected list is applied to the channel grid.

Add or remove channels from a favourite list



Tip

- Select **[All]** channels before adding a channel to a favourite list.

- When watching TV, switch to the channel you want to add or remove from a favourite list.
Alternatively, press **OK** to enter the channel grid and press the **Navigation buttons** to select the channel to add or remove.
- Press **⏏** **OPTIONS**.
↳ The options menu appears.
- Press the **Navigation buttons** to select **[Mark as favourite]** or **[Unmark as favourite]**.
↳ A star appears in the channel grid, indicating that the channel is added to the favourite list. The star disappears if you chose to remove the channel from the favourite list.

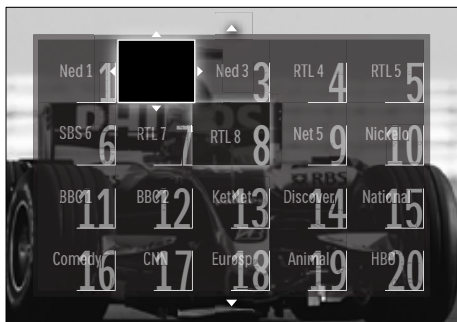
Reorder/rearrange and rename channels

Reorder/rearrange channels

Reorder/rearrange channels in the grid to your desired location.

- When watching TV, press **OK**.
↳ The channel grid appears.
- Press **⏏** **OPTIONS**.
↳ The options menu appears.
- Press the **Navigation buttons** to select **[Reorder]**, then press **OK**.
↳ An on-screen message appears. To continue, go to step 4.
 - To cancel and exit, press **⏏** **OPTIONS** and follow the on-screen instructions.

- 4 Press the **Navigation buttons** to select the channel to reorder in the grid.
 ↳ A box appears around the selected channel.



- 5 Press the **Navigation buttons** to move the channel to the desired location in the grid.
- 6 Press **OK** to confirm your choice.
 ↳ The channel is moved to the selected location.
- 7 Press **↶ BACK** to exit the channel grid.

Rename channels

Rename channels in the grid to suit your needs.

- 1 When watching TV, press **OK**.
 ↳ The channel grid appears.
- 2 Press the **Navigation buttons** to select a channel to rename.
- 3 Press **⏻ OPTIONS**.
 ↳ The options menu appears.
- 4 Press the **Navigation buttons** to select **[Rename]**.
 ↳ An entry screen appears.
- 5 Press the **Navigation buttons** or **Numeric buttons** to edit the name, then press **OK**.

- 6 Once complete, press the **Navigation buttons** to select **[Done]**.
 - To clear the name entered, select **[Clear]**.
 - To cancel, select **[Cancel]**.
- 7 Press **OK** to confirm your choice.
- 8 Press **↶ BACK** to exit the channel grid.

Hide and unhide channels

Hide channels

Hide channels from the grid, to prevent unauthorised access.

- 1 When watching TV, press **OK**.
 ↳ The channel grid appears.
- 2 Press the **Navigation buttons** to select a channel to hide.
- 3 Press **⏻ OPTIONS**.
 ↳ The options menu appears.
- 4 Press the **Navigation buttons** to select **[Hide channel]**.
- 5 Press **OK** to confirm your choice.
 ↳ The channel is hidden.
- 6 Press **↶ BACK** to exit the channel grid.

Unhide channels

Display hidden channels.

- 1 When watching TV, press **OK**.
 ↳ The channel grid appears.
- 2 Press **⏻ OPTIONS**.
 ↳ The options menu appears.
- 3 Press the **Navigation buttons** to select **[Show hidden channels]**.
- 4 Press **OK**.
 ↳ Hidden channels appear in the channel grid, but without channel information displayed. It is displayed as a black box.



- 5 Press the **Navigation buttons** to select the channel to unhide.
- 6 Press **OPTIONS**.
↳ The options menu appears.
- 7 Press the **Navigation buttons** to select **[Unhide channel]**, then press **OK**.
↳ The channel is unhidden.

Note

- Repeat steps 5 through 7 to unhide other channels.

Use the Electronic Programme Guide

Note

- EPG is not available in all countries. If available, you will receive either **[Now]/[Next]** or 8 days EPG.

EPG is an on-screen guide available for digital channels. EPG allows you to:

- View a list of digital programmes being broadcast
- View upcoming programmes
- Group programmes by genre
- Set reminders when programmes start
- Set up preferred EPG channels

Switch on EPG

Note

- The first time you use EPG, you may be prompted to perform an update. Follow the on-screen instructions to perform the update.

- 1 When watching TV, press **GUIDE**.
↳ The EPG menu appears.



- 2 Press:
 - The **Navigation buttons** to move around the screen.
 - INFO** to view more information about a programme (see 'View channel/programme information' on page 25).
 - OPTIONS** to view the options menu (see 'Use the EPG options menu' on page 26).
- 3 Press **BACK** to exit to the original channel, or press **OK** to exit to the selected channel.

View channel/programme information

- 1 When watching TV or when in EPG, press **INFO**.
↳ The programme information screen appears.
- 2 Press the **Navigation buttons** to navigate the screens.

- 3 Press **INFO** to exit back to the original channel or press **BACK** to exit to the EPG menu.

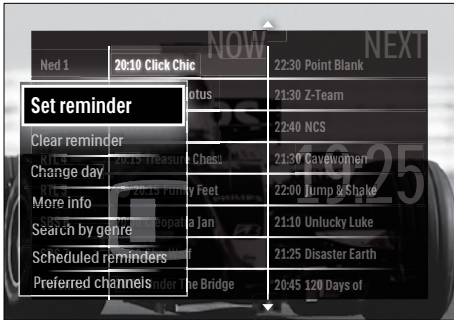
Use the EPG options menu

Use the EPG options menu to set or clear reminders, change day and access other useful EPG options.

Note

- The EPG options are only accessible for 8 days of TV channel information.

- 1 When in EPG, press **OPTIONS**.
↳ The EPG options menu appears.



- 2 Press the **Navigation buttons** and **OK** to select and adjust:
- **[Set reminder]** Sets programme reminders.
 - **[Clear reminder]** Clears programme reminders.
 - **[Change day]** Sets the EPG day. Select **[Today]**, **[Next day]** or **[Previous day]**.
 - **[More info]** View programme information.
 - **[Search by genre]** Searches TV programmes by genre.
 - **[Scheduled reminders]** Lists programme reminders.
 - **[Preferred channels]** Sets preferred EPG channels.

- 3 Press **OPTIONS** to exit to the EPG options menu.

Use timers

You can set timers to switch the TV to standby at a specified time.

Automatically switch the TV to standby (sleeptimer)

Sleeptimer switches the TV to standby after a pre-defined period of time.

Tip

- You can always switch off your TV earlier or reset the sleeptimer during the countdown.

- 1 When watching TV, press **Home**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Features] > [Sleeptimer]**.
↳ The **[Sleeptimer]** menu appears.
- 5 Press the **Navigation buttons** to set the sleep time.
↳ The sleep timer can be up to 180 minutes, in steps of five minutes. The sleep timer is switched off if set to zero minutes.
- 6 Press **OK** to activate the sleeptimer.
↳ The TV switches to standby after the set period of time.
- 7 Press **BACK** to exit or press **Home** to return to the home menu.

Use child and rating locks

You can prevent your children from watching TV by locking the TV and using age ratings.

Set or change the child lock code

- 1 When watching TV, press **⬆ (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Features] > [Set code]/[Change code]**.
↳ The **[Set code]/[Change code]** menu appears.
- 5 Enter the code with the **Numeric buttons**.
- 6 Press **OK**.
↳ A message appears confirming that your code is set.
- 7 Press **↩ BACK** to exit or press **⬆ (Home)** to go back to the home menu.



Tip

- If you forget your code, enter '8888' to override any existing codes.

Lock or unlock the TV

Locking the TV prevents your child from accessing all channels and connected devices.

- 1 When watching TV, press **⬆ (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Features] > [Child lock] > [Lock]/[Unlock]**.
↳ A message appears prompting you to enter the child lock code.

- 5 Enter the child lock code with the **Numeric buttons**.
↳ The **[Child lock]** menu appears.
- 6 Press the **Navigation buttons** to select **[Lock]/[Unlock]**.
- 7 Press **OK** to confirm your choice.
↳ All channels and connected devices are locked or unlocked.
- 8 Press **↩ BACK** to exit or press **⬆ (Home)** to go back to the home menu.

Enable parental ratings



Note

- Parental rating is not available in all countries.

Some digital broadcasters rate their programmes according to age. Before you can set parental ratings, you have to enable the feature.

- 1 When watching TV, press **⬆ (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Features] > [Child lock]**, then press **▶**.
↳ A message appears prompting you to enter the child lock code.
- 5 Enter the child lock code with the **Numeric buttons**.
- 6 Press the **Navigation buttons** to go back one menu level to **[Features] > [Parental rating]**.
↳ The **[Parental rating]** menu is now available.

Set parental ratings

Some digital broadcasters rate their programmes according to age. You can set your TV to display only programmes with age ratings higher than your child's age.

Note

- Before you can set parental ratings, you have to enable the feature (see 'Enable parental ratings' on page 27).

- 1 When watching TV, press **⬆** (**Home**).
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Features] > [Parental rating]**.
↳ A message appears prompting you to enter the child lock code.
- 5 Enter the child lock code with the **Numeric buttons**.
- 6 Press the **Navigation buttons** to select an age rating, then press **OK** to apply the setting.
↳ All programmes beyond the selected age rating are blocked.
- 7 Press **↩ BACK** to exit or press **⬆** (**Home**) to go back to the home menu.

Use subtitles

You can enable subtitles for each TV channel. Subtitles are broadcast via teletext or DVB-T digital broadcasts. With digital broadcasts, you have the additional option of selecting a preferred subtitle language.

Enable or disable subtitles on analogue TV channels

- 1 Switch to an analogue TV channel.
- 2 Press **TELETEXT**.
- 3 Enter the three-digit page number of the subtitle page with the **Numeric buttons**.
- 4 Press **TELETEXT** to switch off teletext.
- 5 Press **SUBTITLE**.
↳ The **[Subtitles]** menu appears.

Note

- The **[Subtitles]** menu is also accessible through the **[Setup]** menu.

- 6 Press the **Navigation buttons** to select:
 - **[On]** Enables subtitles.
 - **[Off]** Disables subtitles.
 - **[On during mute]** Displays subtitles only when audio is muted.
- 7 Press **OK** to confirm your choice.
↳ Subtitles are enabled or disabled.
- 8 Press **↩ BACK** to exit or press **⬆** (**Home**) to go back to the home menu.

Note

- Repeat this procedure to enable subtitles on each analogue channel.
- If EasyLink is enabled, subtitles are not displayed when **[On during mute]** is selected (see 'Enable or disable EasyLink' on page 51).

Enable or disable subtitles on digital TV channels

- 1 Press **SUBTITLE**.
↳ The **[Subtitles]** menu appears.

Note

- The **[Subtitles]** menu is also accessible via the **[Setup]** menu (see 'Access the setup menu' on page 15).

- 2 Press the **Navigation buttons** to select:
 - **[On]** Enables subtitles.
 - **[Off]** Disables subtitles.
 - **[On during mute]** Displays subtitles only when audio is muted.
- 3 Press **OK**.
 - ↳ Subtitles are enabled or disabled.
- 4 Press **↶ BACK** to exit or press **🏠 (Home)** to go back to the home menu.

Select a subtitle language on digital TV channels

Note

- When you select a subtitle language on a digital TV channel as described below, the preferred subtitle language set in the installation menu is temporarily overruled.

- 1 When watching TV, press **🏠 (Home)**.
 - ↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
 - ↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Features] > [Subtitle language]**.
 - ↳ A list of subtitle languages appears.
- 5 Press the **Navigation buttons** to select a language.
- 6 Press **OK** to confirm your choice.
 - ↳ The subtitle language is applied.

Note

- Select preferred subtitle languages in the **[Languages]** menu. Subtitles automatically appear in the preferred languages when enabled.

Use the TV clock

You can display a clock on the TV screen. The clock displays the current time using time data received from your TV service operator.

Display the TV clock

You can display a clock on the TV screen, displaying the current time.

- 1 When watching TV, press **⏻ OPTIONS**.
 - ↳ The options menu appears.
- 2 Press the **Navigation buttons** to select **[Clock]**.
- 3 Press **OK** to confirm your choice.
 - ↳ The clock displays on the TV screen.

Note

- To disable the clock, repeat the procedure above.

Tip

- The clock is also accessible via the **[Setup]** menu (see 'Access the setup menu' on page 15).

Change the clock mode

By default, the clock mode is set to **[Automatic]**, syncing the TV clock to Coordinated Universal Time (UTC). If your TV cannot receive UTC transmissions, set the clock mode to **[Manual]**. If clock mode is **[Manual]**, time data is based on your current time zone (see 'Step 1 Select your system' on page 37) and daylight saving conditions (see 'Enable or disable daylight saving' on page 30).

- 1 When watching TV, press **🏠 (Home)**.
 - ↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
 - ↳ The **[Setup]** menu appears.

- 4 Press the **Navigation buttons** to select **[Installation]** > **[Clock]** > **[Auto clock mode]**.
 ↳ The **[Auto clock mode]** menu appears.
- 5 Press the **Navigation buttons** to select **[Automatic]** or **[Manual]**.
- 6 Press **OK** to confirm your choice.
 ↳ The clock mode is set.

Enable or disable daylight saving

If clock mode is set to **[Manual]**, enable or disable daylight saving if required for your time zone.

- 1 In the **[Clock]** menu, press the **Navigation buttons** to select **[Daylight saving]**.
 ↳ The **[Daylight saving]** menu appears.
- 2 Press the **Navigation buttons** to select **[Daylight saving time]** or **[Standard time]**.
- 3 Press **OK** to confirm your choice.
 ↳ Daylight saving is enabled or disabled for your time zone.

View photos, play music and watch video

! Caution

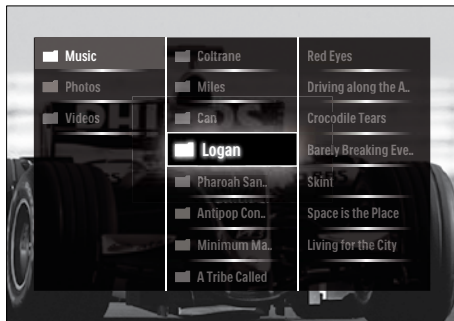
- Philips is not responsible if your USB storage device is not supported nor is it responsible for damage or loss of data from use of this feature.

Your TV is fitted with a USB connector that enables you to view to view photos, listen to music or watch movies stored on a USB storage device.

Your TV also has a network connector, enabling you to access and play media files directly from your computer.

Connect a USB storage device and enter the content browser

- 1 While the TV is on, connect the USB device to the USB port on the side of your TV.
 ↳ The USB content browser appears.



≡ Note

- The USB content browser is also accessible by selecting **[Browse USB]** in the home menu.
- If you connect multiple USB storage devices via a USB hub, a message appears prompting you to select a device. Press the **Navigation buttons** to select the device, then press **OK** to confirm.

- 2 To exit from the USB content browser, press **⬅(HOME)**.
 ↳ The home menu appears.

Connect to a network and enter the content browser

Before accessing the content browser, be sure that the TV is connected to a computer network (see 'Connect to a network and enter the content browser' on page 30).

- 1 When watching TV, press **⬅(Home)**.
 ↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Browse PC network]**.
 ↳ The content browser appears.

Watch a slideshow of your photos

- 1 In the content browser, press the **Navigation buttons** to select a photo.
- 2 Press **▶||** or **OK**.
↳ A slideshow begins from the selected image.
- 3 Press:
 - **▶||** to pause the slideshow.
 - **◀/▶**, **◀◀▶▶** or **P +/-** to go back or move forward to the next image.
 - **■** to stop the slideshow and return to the content browser.

Change slideshow settings

- 1 When viewing a slideshow, press **OPTIONS**.
↳ The options menu appears.
- 2 Press the **Navigation buttons** to select and adjust:
 - **[Rotate]** Rotates a picture.
 - **[Repeat]** Repeats the slideshow.
 - **[Shuffle on]** Displays pictures in the slideshow at random.
 - **[Shuffle off]** Disables random display of pictures in the slideshow.
 - **[Slideshow speed]** Sets the amount of time that a picture is shown.
 - **[Slideshow transition]** Sets the transition from one picture to the next.
- 3 Press **OK** to confirm your choice.
↳ The slideshow setting is applied.

Listen to music

- 1 In the USB content browser, press the **Navigation buttons** to select a song.
- 2 Press **OK**.
↳ The song starts to play in the music player.
- 3 Press:
 - **P +/-** to skip to the next or previous song.

- **◀◀▶▶** to fast-forward or rewind a song.
 - **▶||** to play or pause a song.
- 4 Press **■** or **OK** to stop play and exit to the USB content browser.

Change music settings

- 1 When in the music player, press **OPTIONS**.
↳ The options menu appears.
- 2 Press the **Navigation buttons** to select and adjust:
 - **[Repeat]** Repeats a song or an album.
 - **[Shuffle on]/[Shuffle off]** Enables or disables random play of songs.
- 3 Press **OK** to confirm your choice.
↳ The music setting is applied.



Note

- Slideshow settings are also available by pressing the **OPTIONS** button when in the content browser.

Watch video

- 1 In the USB content browser, press the **Navigation buttons** to select a video.
- 2 Press **OK**.
↳ The video starts to play in the video player.
- 3 Press:
 - **P +/-** to skip to the next or previous video.
 - **◀◀▶▶** to fast-forward or rewind a video.
 - **▶||** to play or pause a video.
- 4 Press **■** or **OK** to stop play and exit to the USB content browser.

Change video settings

- 1 When in the video player, press **OPTIONS**.
↳ The options menu appears.
- 2 Press the **Navigation buttons** to select and adjust:
 - **[Small screen]** Plays video in a small screen.
 - **[Full screen]** Plays video across the whole screen.
 - **[Repeat]** Repeats a video.
 - **[Shuffle on]/[Shuffle off]** Enables or disables random play of videos.
- 3 Press **OK** to confirm the setting change.

Disconnect a USB storage device



Caution

- Follow this procedure to avoid damage to your USB storage device.

- 1 Press **⬆(HOME)** to exit the USB content browser.
- 2 Wait five seconds before disconnecting the USB storage device.

Listen to digital radio channels

If digital broadcasting is available, digital radio channels are installed automatically during installation.

- 1 When watching TV, press **OK**.
↳ The channel grid appears.
- 2 Press **OPTIONS**.
↳ The options menu appears.
- 3 Press the **Navigation buttons** to select **[Select list]**.
↳ The **[Select list]** menu appears.
- 4 Press the **Navigation buttons** to select **[Radio]**.

- 5 Press **OK**.
↳ A list of available digital radio channels appears in the channel grid.
- 6 Press the **Navigation buttons** to select a radio channel.
- 7 Press **OK**.
↳ The selected digital radio channel plays through the TV speakers.

Update the TV software

Philips continuously tries to improve its products and we recommend that you update the TV software when updates are available. Check www.philips.com/support for availability.

Check the current software version

- 1 When watching TV, press **⬆ (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Software update] > [Current software info]**.
- 5 Press **OK**.
↳ The version of the current software is displayed.

Update software (from website)

Before performing this procedure be sure to:

- Set aside some time to complete the entire update.
- Have available a USB storage device with at least 256MB of storage space.
- Have access to a computer with a USB port and internet access.

- 1 When watching TV, press **⬆ (Home)**.
↳ The home menu appears.

- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Software update]** > **[Update now]**.
- 5 Press **OK**.
↳ The update assistant starts. Follow the on-screen instructions to complete the update.

Update software (digital broadcasts)

(Only available in some countries) If available, your TV can receive software updates via digital broadcasts.

If an update is available, a message appears prompting you to update the software. We strongly recommend that you update the software when prompted.

Follow the instructions below to update the software at a later stage.

- 1 When watching TV, press **⬆ (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Software update]** > **[Local updates]**.
- 5 Press **OK**.
↳ The TV searches for available software updates via digital broadcasts.

Update software (from internet)

(Only available in some countries) If your TV is connected to a router, which is connected to the Internet, you can update the TV software directly from the Internet. You need a high speed Internet connection.

- 1 When watching TV, press **⬆ (Home)**.
↳ The home menu appears.

- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Software update]** > **[Update now]**.
- 5 Press **OK**.
- 6 Select **[Internet]** and press **OK**.
↳ The update begins. Once complete, the TV switches off and back on again automatically. Wait for the TV to switch back on; do not use **⏻POWER** on the TV.

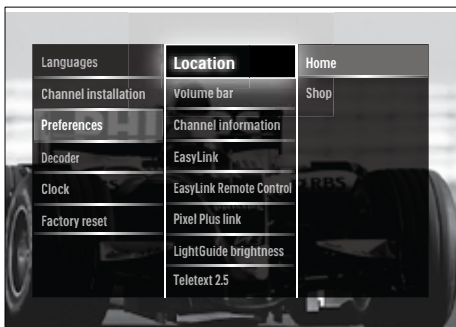


Tip

- If the TV is connected to the Internet, the TV displays a message about the availability of new software at startup.

Change TV preferences

- 1 When watching TV, press **⬆ (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Installation]** > **[Preferences]**.
↳ The **[Preferences]** menu appears.



- 5 Press the **Navigation buttons** to select and change:
 - **[Location]** Optimises TV settings for your location - home or shop.
 - **[Volume bar]** Displays the volume bar when adjusting the volume.
 - **[Channel information]** Displays information about the TV channel every time you switch channels.
 - **[EasyLink]** Enables one-touch play and one-touch standby between EasyLink-compliant devices.
 - **[EasyLink Remote Control]** When EasyLink is enabled, allows remote control key forwarding.
 - **[Pixel Plus link]** When EasyLink is enabled, automatically applies the best Pixel Plus setting if there is more than one (for example, if both your TV and DVD player support Pixel Plus).
 - **[LightGuide brightness]** Sets the brightness of the front LED indicator or LightGuide.
 - **[Teletext 2.5]** Enables or disables Teletext 2.5.

- 6 Press **OK**.
 - ↳ The TV preference is applied.

Start a TV demo

(Not supported on MHEG channels)

- 1 When watching TV, press **DEMO**.
 - ↳ The demo menu appears.
- 2 Press the **Navigation buttons** to select a demo.
- 3 Press **OK** to start the demo.
- 4 Press **DEMO** or **↩ BACK** to exit the demo.

Reset the TV to factory settings

Resetting your TV to factory settings restores default picture and sound settings. Channel installation settings remain the same.

- 1 When watching TV, press **⬆ (Home)**.
 - ↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
 - ↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Installation] > [Factory reset]**.
- 4 Press **OK**.
 - ↳ TV settings are reset back to the factory default.

Use universal remote control (selected models only)

Control other devices such as a DVD player, a set-top box or a home theatre system from Philips or other brands.

To return to TV mode from universal control, press **TV**.

Use these keys to control the devices:

- **DVD**: controls a DVD player, DVD Recorder, DVD-R HDD or Blu-ray Disc player.

- **STB:** controls a digital receiver or satellite receiver
- **HTS:** controls a home theatre system or an amplifier.

Setup universal remote control

Before you use the TV remote control to control another device, setup the universal remote control mode.



Note

- For some devices, this feature is not supported. There is no suitable RC code.

- 1 Press **Home**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Installation]>[Universal remote control]**.
- 5 Press **OK**.
↳ Follow the on-screen instructions. The TV searches for a suitable RC code for your device.
- 6 When an RC code is detected, press the **Universal control buttons** to control the device.
↳ The key blinks. Use the remote control to control the detected device.

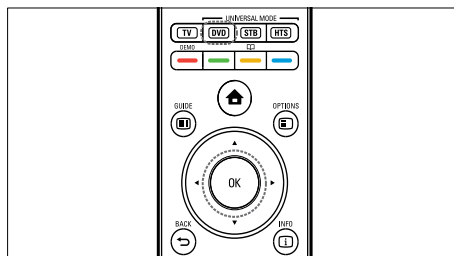


Tip

- In universal remote control mode, the remote control switches to TV mode after 30 seconds if no key is pressed.

Manually setup universal remote control

Enter an RC code to setup a universal mode key (see 'Universal remote control codes' on page 59).



- 1 Press and hold the universal mode button (**DVD**, **STB** or **HTS**) and **OK** simultaneously.
↳ All four keys light up for one second and the key stays lighted.
- 2 Enter the 4-digit RC code for the device.
- 3 If the code is accepted, all four keys blink three times.
↳ The universal mode key is set up.
- 4 If the code entered is incorrect, all keys blink for two seconds. Re-enter the correct code.
- 5 When setup is complete, press the universal mode key to operate the device.



Tip

- If the device does not react correctly, repeat the setup with another RC code.

6 Install channels

The first time you set up your TV, you are prompted to select a menu language and to install TV and digital radio channels (if available). This chapter provides instructions on how to re-install and fine tune channels.

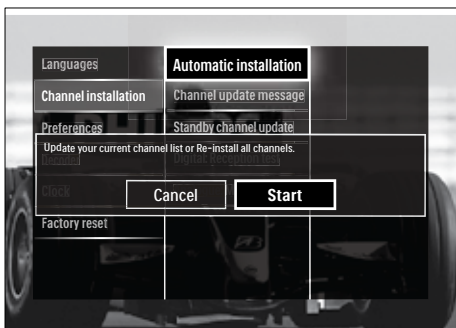
Automatically install channels

This section describes how to search and store channels automatically.

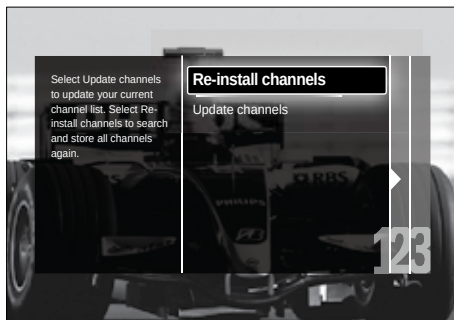
Install channels

Your TV searches and stores all available digital and analogue TV channels as well as all available digital radio channels.

- 1 In the **[Channel installation]** menu, press the **Navigation buttons** to select **[Automatic installation]**.
- 2 Press **OK**.
↳ A message appears prompting you to start channel installation.



- 3 Press the **Navigation buttons** to select **[Start]**.
- 4 Press **OK**.
↳ The channel update screen appears, with **[Re-install channels]** selected.



! Caution

- Leave **[Settings]** unchanged unless your DVB-C provider supplies values for **[Network frequency]**, **[Network ID]** or **[Symbol rate]**.
- Setting **[Frequency scan]** to **[Full scan]** can extend installation time significantly.

≡ Note

- If you have access to DVB-T and DVB-C, and want to view channels from both networks, you must perform channel installation twice — once for DVB-T and once for DVB-C. Select **[Antenna]** to install DVB-T channels and select **[Cable]** to install DVB-C channels.
- To switch between DVB-T and DVB-C channels (see 'Access DVB-C and DVB-T channel networks' on page 37).

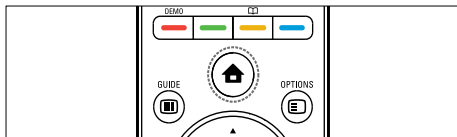
- 5 Press **OK**.
↳ Follow the onscreen instructions to complete channel installation. When channel installation is complete, **[Done]** is selected and a list of installed channels appears.
- 6 Press **OK** to confirm your choice.
↳ The TV exits to the **[Channel installation]** menu.

* Tip

- When digital TV channels are found, the list of installed channels may display empty channel numbers. You can rename, reorder or uninstall stored channels as described below.

Access DVB-C and DVB-T channel networks

This option appears only if your country supports DVB-C (Digital Video Broadcasting-Cable). If you have installed both DVB-C and DVB-T channels, you have to switch to the respective network to watch channels on that network.



- 1 When watching TV, press **HOME** (house icon).
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Installation]** > **[Channel installation]** > **[Antenna or Cable DVB]** > **[Antenna]** or **[Cable]**.
 - Select **[Antenna]** to access DVB-T (Digital Video Broadcasting-Terrestrial) channels.
 - Select **[Cable]** to access DVB-C (Digital Video Broadcasting-Cable) channels.
- 4 Press **OK** to confirm your choice.
- 5 Press **BACK** to exit.
↳ The TV switches to the selected network.

Manually install channels

This section describes how to search and store analogue TV channels manually.

Step 1 Select your system



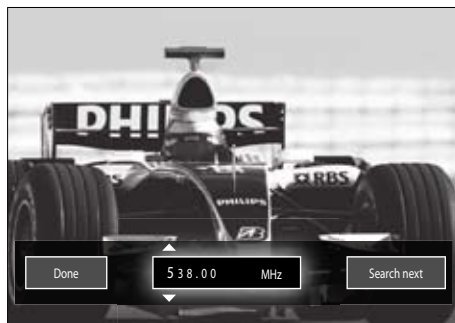
Note

- Skip this step if your system settings are correct.

- 1 When watching TV, press **HOME** (house icon).
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Installation]** > **[Channel installation]** > **[Analogue: Manual installation]** > **[System]**.
- 4 Press **OK**.
↳ A list of regional systems appears.
- 5 Press the **Navigation buttons** to select your country or region.
- 6 Press **OK** to confirm your choice.
↳ The selected country or region is applied.

Step 2 Search and store new TV channels

- 1 In the **[Analogue: Manual installation]** menu, press the **Navigation buttons** to select **[Find channel]**.
- 2 Press **OK**.
↳ The **[Find channel]** menu appears.



- 3 Press:
 - The **Navigation buttons** or **Numeric buttons** to manually enter the channel frequency.
 - The **Navigation buttons** to select **[Search next]**, then press **OK** to automatically search for the next channel.
- 4 When the correct channel frequency is selected, press the **Navigation buttons** to select **[Done]**.
- 5 Press **OK**.
 - ↳ The **[Analogue: Manual installation]** menu appears.
- 6 Press the **Navigation buttons** to select **[Store current channel]** to store the new channel under the current channel; or **[Store as new channel]** to store the new channel under a new channel number.
- 7 Press **OK** to confirm your choice.
 - ↳ The channel is stored.
- 7 Press the **Navigation buttons** or **Numeric buttons** to manually enter the channel frequency.
- 8 When the correct channel frequency is selected, press the **Navigation buttons** to select **[Done]**, then press **OK**.
 - ↳ The **[Analogue: Manual installation]** menu appears.
- 9 Press the **Navigation buttons** to select **[Store current channel]** to store the new channel under the current channel.
- 10 Press **OK** to confirm your choice.

Manually update the channel list

If your TV is in standby mode, an update is performed every morning. This update matches channels stored in your channel list with those available from your broadcaster.

In addition to this automatic update, you can manually update the channel list.



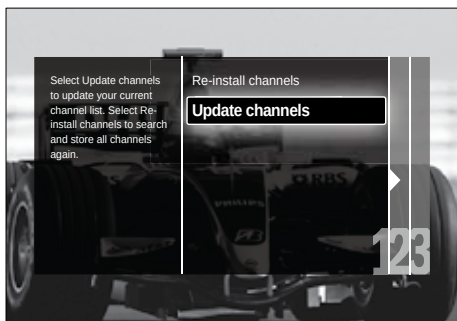
Tip

- To disable the automatic update, in the **[Installation]** menu, press the **Navigation buttons** to select **[Channel installation]** > **[Channel update in standby]**, then select **[Off]**.

Fine-tune analogue channels

You can fine tune analog channels manually when reception is poor.

- 1 When watching TV, select the channel to fine-tune.
- 2 Press **⬆ (Home)**.
 - ↳ The home menu appears.
- 3 Press the **Navigation buttons** to select **[Setup]**.
- 4 Press **OK**.
 - ↳ The **[Setup]** menu appears.
- 5 Press the **Navigation buttons** to select **[Installation]** > **[Channel installation]** > **[Analogue: Manual installation]** > **[Fine tune]**.
- 6 Press **OK**.
 - ↳ The **[Fine tune]** menu appears.
- 1 In the **[Installation]** menu, press the **Navigation buttons** to select **[Channel installation]** > **[Automatic installation]**.
- 2 Press **OK**.
 - ↳ A message appears with **[Start]** selected, prompting you to start the channel update.
- 3 Press **OK**.
 - ↳ The channel update screen appears.
- 4 Press the **Navigation buttons** to select **[Update channels]**.



- 5 Press **OK**.
 - ↳ Follow the on-screen instructions to complete channel update. When the update is complete, **[Done]** is selected and a list of added channels is displayed.
- 6 Press **OK**.
 - ↳ The **[Installation]** menu appears.

Test digital reception

If using digital broadcasts, you can check the quality and signal strength of digital channels. This allows you to reposition and test your antenna or satellite dish.

- 1 In the **[Installation]** menu, press the **Navigation buttons** to select **[Channel installation] > [Digital: Reception test] > [Search]**.
- 2 Press **OK**.
 - ↳ The **[Search]** menu appears.
- 3 Press:
 - The **Navigation buttons** or **Numeric buttons** to manually enter the channel frequency.
 - The **Navigation buttons** to select **[Search]**, then press **OK** to automatically search for the next channel.

If the signal quality and strength is poor, reposition the antenna or satellite dish and retest.

- 4 When complete, press the **Navigation buttons** to select **[Done]**.
- 5 Press **OK**.
 - ↳ The **[Installation]** menu appears.



Note

- If you have further problems with the reception of your digital broadcast, contact a specialised installer.

Change startup message settings

Enable or disable messages that appear at the startup to indicate whether a channel or installation update is needed.

- 1 In the **[Installation]** menu, press the **Navigation buttons** to select **[Channel installation] > [Channel update message]**.
- 2 Press **OK**.
- 3 Press the **Navigation buttons** to select **[On]** or **[Off]**.
 - ↳ Startup messages are enabled or disabled.

7 Connect devices

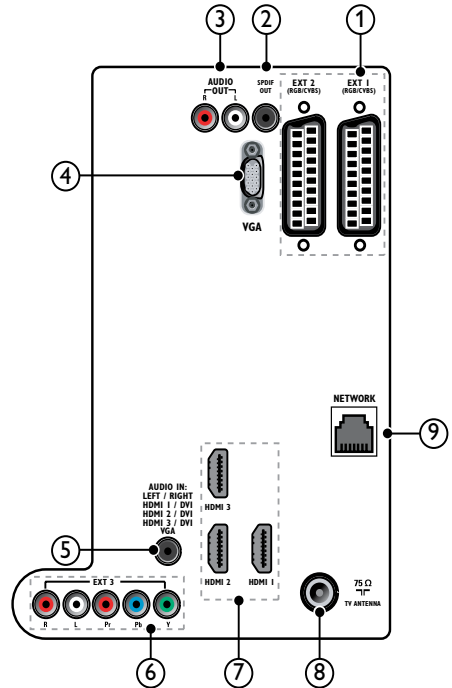
For best picture quality, we recommend you to use the following connection types, listed below from highest to basic quality:

- 1 HDMI
- 2 Y Pb Pr (component)
- 3 SCART
- 4 VIDEO (composite)

Note

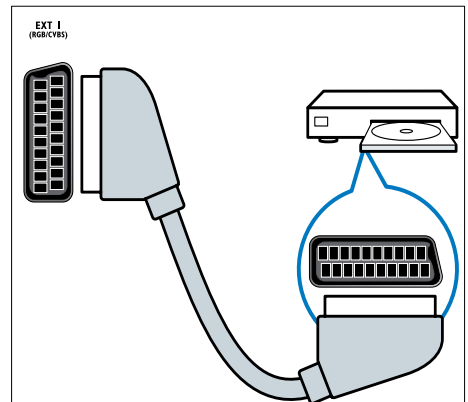
- The connectivity diagrams provided in this section are examples only. A comprehensive interactive guide to help you connect your product is available at www.connectivityguide.philips.com.

Back connectors



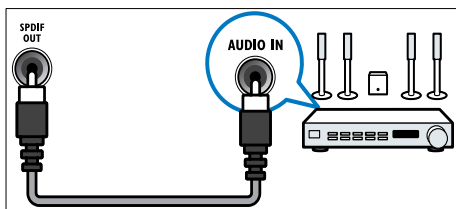
① EXT 1/EXT 2 (SCART)

Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.



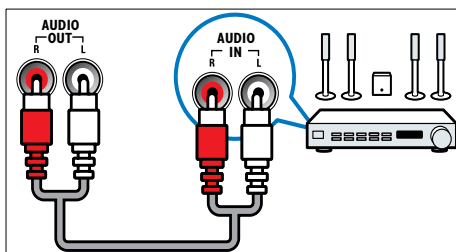
② SPDIF OUT

Digital audio output to home theatres and other digital audio systems.



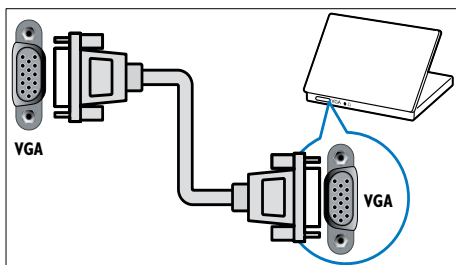
③ AUDIO OUT L/R

Analogue audio output to home theatres and other audio systems.



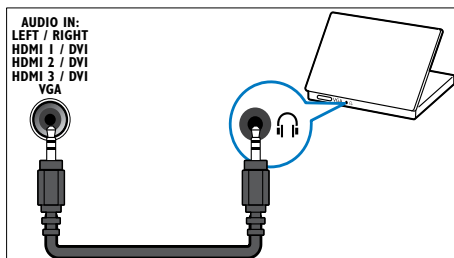
④ VGA

Video input from a computer.



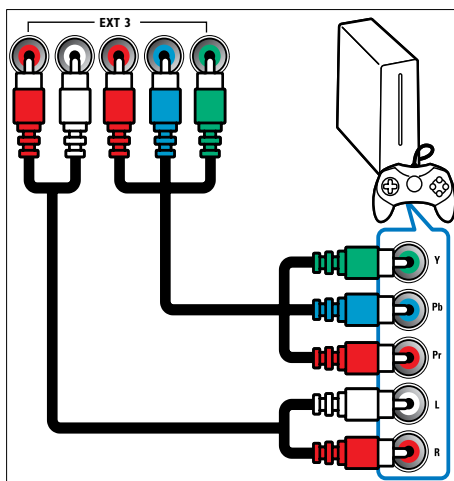
⑤ AUDIO IN

Audio input from devices that require a separate audio connection, such as a computer.



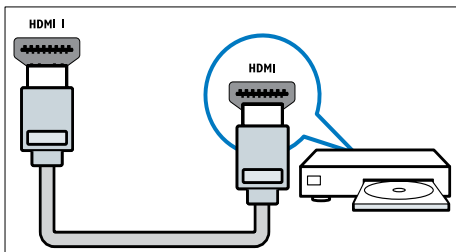
⑥ EXT 3(Y Pb Pr)andAUDIO L/R

Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.



⑦ HDMI1/2/3

Digital audio and video input from high-definition digital devices such as Blu-ray players.

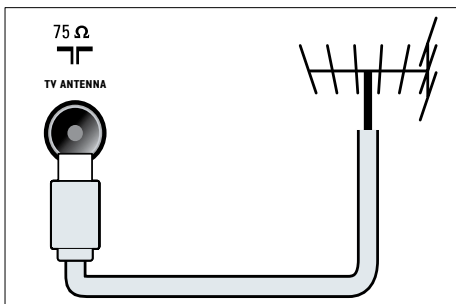


Note

- If connecting thick HDMI cables, use **HDMI1**.

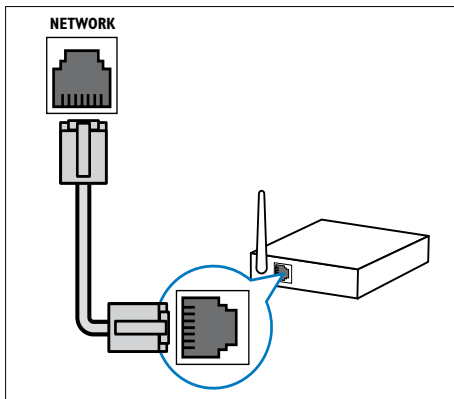
⑧ TV ANTENNA

Signal input from an antenna, cable or satellite.

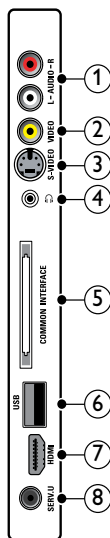


⑨ NETWORK*This feature is available in selected models only.

Data input from a network.

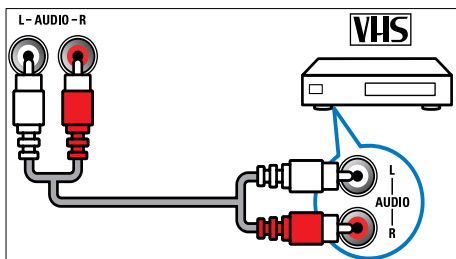


Side connectors



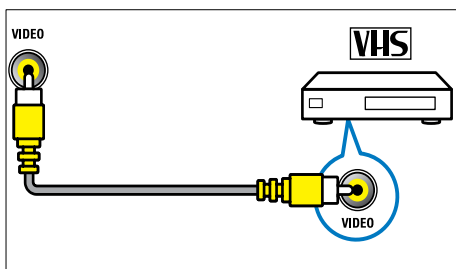
① AUDIO IN L/R

Audio input from analogue devices connected to **VIDEO** or **S-VIDEO**.



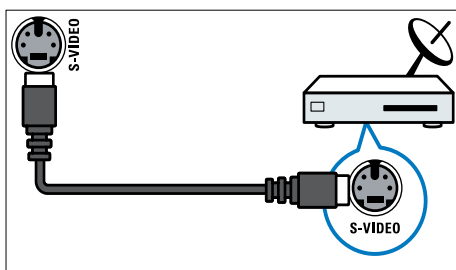
② VIDEO

Composite video input from analogue devices such as VCRs.



③ S-VIDEO

Video input from analogue devices such as satellite receivers.



④

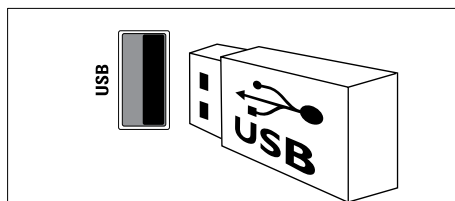
Stereo audio output to headphones or earphones.

⑤ COMMON INTERFACE

Slot for a Conditional Access Module (CAM).

⑥ USB

Data input from USB storage devices.



⑦ HDMI

Digital audio and video input from high-definition digital devices such as Blu-ray players.

⑧ SERV. U

For use by service personnel only.

Connect a computer

Before you connect a computer to the TV:

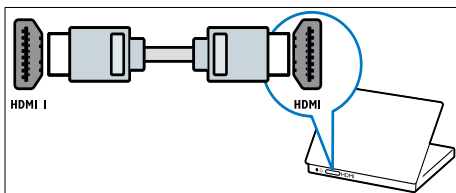
- Set the screen refresh rate on your computer to 60Hz.
- Select a supported screen resolution on your computer.
- Enable **[PC mode]** in the **[Picture]** menu (see 'Manually adjust picture settings' on page 17), and set the picture format to **[Unscaled]**.

Connect a computer with one of the following connectors:

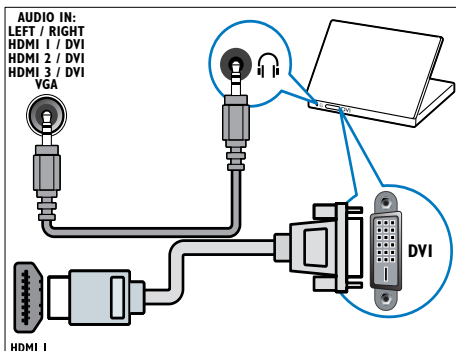
Note

- Connections via DVI or VGA require an additional audio cable.

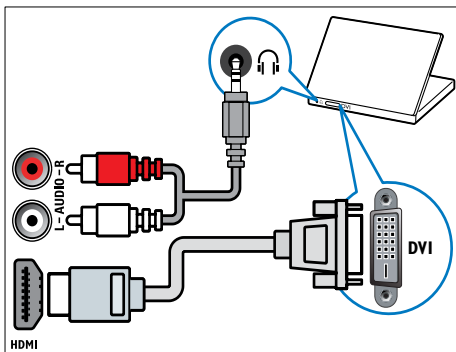
- HDMI cable



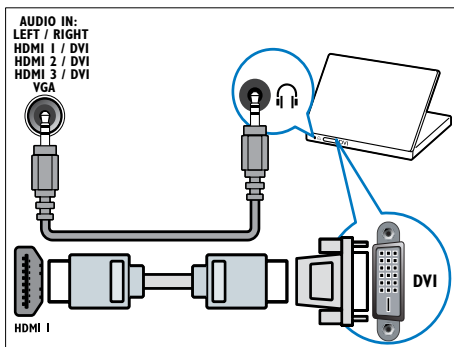
- DVI-HDMI cable (rear HDMI and AUDIO IN)



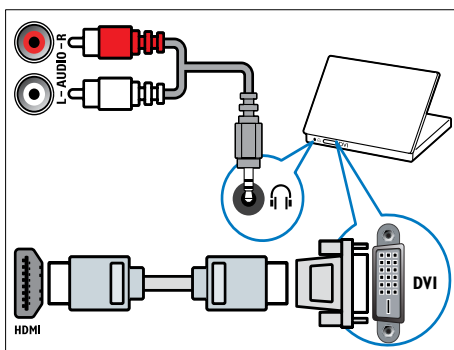
- DVI-HDMI cable (side HDMI and AUDIO IN L/R)



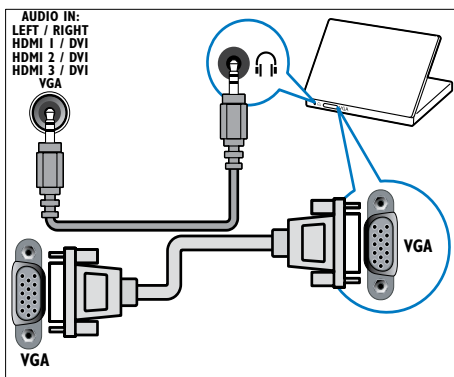
- HDMI cable and HDMI-DVI adaptor (rear HDMI and AUDIO IN)



- HDMI cable and HDMI-DVI adaptor (side HDMI and AUDIO IN L/R)



- VGA cable



Connect to a computer network (selected models only)

Connect the TV to a computer network and enjoy:

- **Multimedia content streamed from your computer**

With the TV connected to a computer network, you can view photos, play music and watch video files streamed from your computer (see 'Connect to a network and enter the content browser' on page 30).

- **Net TV**

With the TV connected to a computer network with Internet access, you can browse Net TV.

! Caution

- Familiarize yourself with the network router, media server software and networking principles before attempting to connect the TV to a computer network. If necessary, read documentation accompanying network components. Philips is not responsible for lost, damaged or corrupt data.

What you need

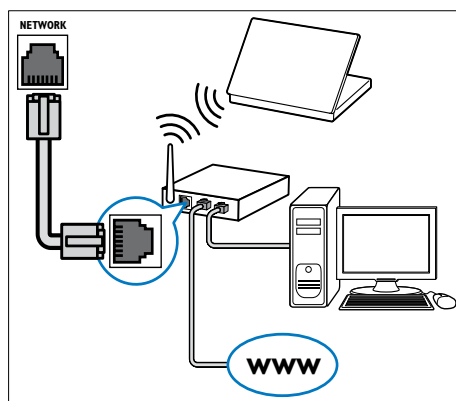
- A network router (with DHCP enabled)
- A computer with media server software installed. The computer must be connected to the network router via a wired or wireless network connection.
- A network cable (RJ45)
- Internet connection, for Net TV

≡ Note

- A complete list of supported media server software is available (see 'Multimedia' on page 53).

Connect the TV to a computer network

- 1 Connect the network cable between the **NETWORK** connector at the back of the TV, and a network router. Be sure that the router is connected to your computer via a wired or wireless connection and that the router's DHCP setting is enabled. For Net TV service, be sure that the network router has complete access to the Internet (and is not restricted by firewalls or other security systems).



- 2 Switch on the router.
- 3 Switch on the computer.
- 4 Setup media server software to access media from your computer (see 'Setup media server software' on page 45), or configure the TV for access to Net TV (see 'Setup media server software' on page 49).

Setup media server software

Media server software must be properly configured to enable media sharing. Follow the instructions that follow to setup your media server software and to share media folders. If you do not find instructions for your media server software, refer to documentation

accompanying your software to enable media sharing.

Note

- You do not need to complete this section to access Net TV.

In Microsoft Windows Media Player 11

Note

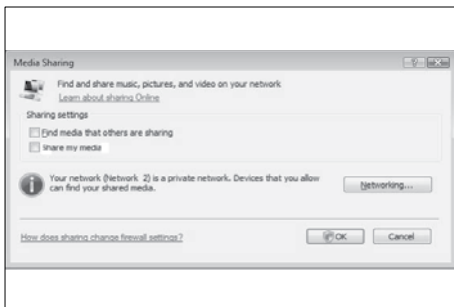
- The instructions are applicable to both Microsoft Windows XP and Vista.

Enable media sharing

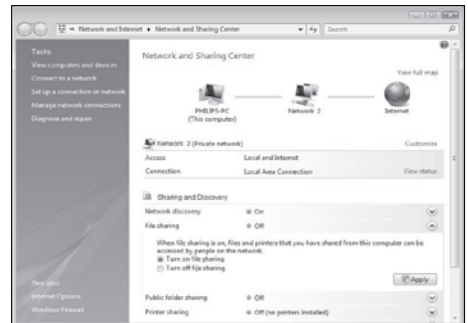
- 1 In Microsoft Windows, start Windows Media Player 11.
↳ Windows Media Player appears.



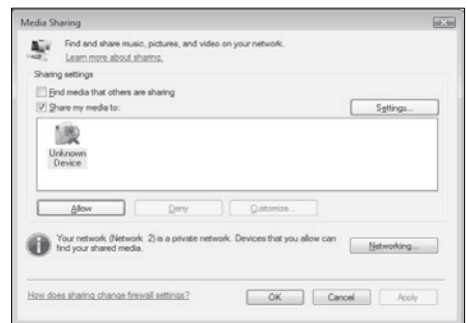
- 2 Click **Library > Media Sharing**.
↳ The Media Sharing window appears.



- 3 Click **Networking...**.
↳ Network and Sharing Center appears.



- 4 Click the arrow next to **Network discovery**.
↳ **Network discovery** options appear.
- 5 Click **Turn on network discovery**, then click **Apply**.
- 6 Click the arrow next to **File sharing**.
↳ File sharing options appear.
- 7 Click **Turn on file sharing**, then click **Apply**.
- 8 Go back to the **Media Sharing** window.
- 9 In the **Sharing settings** box, click **Share my media to:**.



- 10 Click the **Unknown Device** icon (the TV), then click **Allow**.
↳ A green tick appears on the **Unknown Device** icon, indicating that it is ready for media sharing.

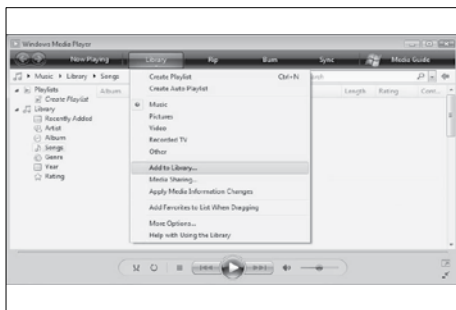
11 Click OK.

Add folders for media sharing

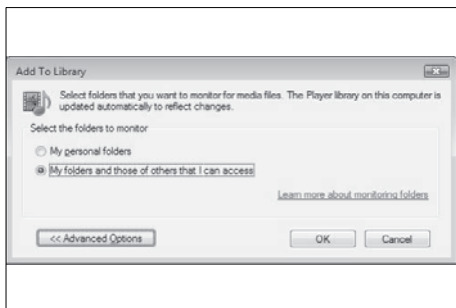
1 In Windows Media Player, click **Library** ->

Add to Library...

↳ The **Add To Library** window appears.

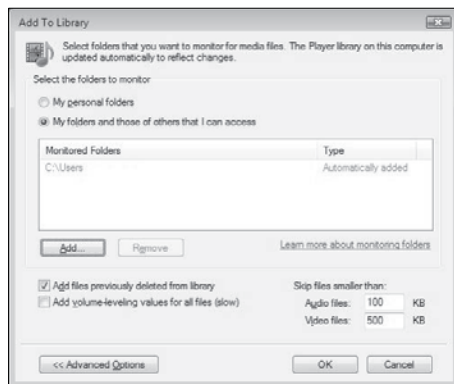


2 Click **My folders and those of others that I can access**.



3 Click **Advanced Options**.

↳ Advanced options appear in the **Add To Library** window.



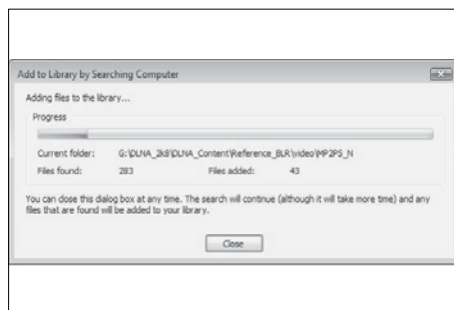
4 Click **Add**.

↳ The **Add Folder** window appears.

5 Select a folder to share and click **OK**.

6 When all folders are added, click **OK** in the **Add To Library** window.

↳ Folders are added to the library, and are ready to be accessed from the TV.



In TVersity v0.9.10.3 (Microsoft Windows)

Enable media sharing

1 In Microsoft Windows, start TVersity.

↳ TVersity appears.

2 Click the **Settings** tab.

↳ The TVersity settings appear.



- 3 In the **Media Sharing Service** box, click **Start Sharing**.
 ↳ A window appears, informing you that Media Sharing Service started.
- 4 Click **OK**.

Add folders for media sharing

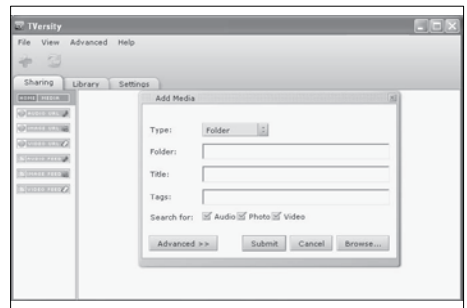
- 1 In TVerseity, click the **Sharing** tab.
 ↳ The **Sharing** options appear:



- 2 Click the green plus icon.
 ↳ Options to add files and folders appear.



- 3 Click **Add Folder**.
 ↳ An **Add Media** window appears.



- 4 Click **Browse** and select folders to share.
- 5 When all folders are selected, click **Submit**.
 ↳ Media files are ready to be accessed from the TV.

In Twonky Media v4.4.2 (Macintosh OS X)

Enable media sharing

- 1 In Mac OS X, start Twonky Media.
 ↳ Twonky Media appears.
- 2 In the **Basic Setup** box, click **Clients/Security**.
 ↳ Clients/Security settings appear.
- 3 Click **Enable sharing for new clients automatically**, then click **Save Changes**.
 ↳ Media sharing is enabled.

Add folders for media sharing

- 1 In the **Basic Setup** box, click **Sharing**.
↳ Sharing settings appear.



- 2 Click **Browse** to add a folder location. Click **Add new content directory** to add more folders.
- 3 When all folders are added, click **Save changes** then click **Rescan content directories**.
↳ Media files are ready to be accessed from the TV.

Setup media server software

- 1 When the TV is connected to a computer network with Internet access, press **⬆ (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Network] > [Network]**.
↳ Follow the on-screen instructions that appear to configure the TV for access to Net.

Use a Conditional Access Module

A Conditional Access Module (CAM) is provided by digital TV service operators to decode digital TV channels.

Note

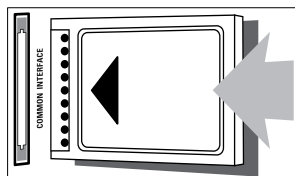
- If required, refer to documentation from your operator on how to insert a smart card into the Conditional Access Module.

Insert and activate a CAM

! Caution

- Be sure to follow the instructions described below. Wrong insertion of a CAM may damage both the CAM and your TV.

- 1 Switch off the TV.
- 2 Following the directions printed on the CAM, gently insert the CAM into the **COMMON INTERFACE** at the side of the TV.



- 3 Push the CAM in as far as it will go.
- 4 Turn on the TV and wait for the CAM to be activated. This may take several minutes. Do not remove the CAM from the slot when in use — removing the CAM will deactivate digital services.

Access CAM services

- 1 After inserting and activating the CAM, press **Ⓞ OPTIONS**.
↳ The options menu appears.

- 2 Press the **Navigation buttons** to select **[Common interface]**.
- 3 Press **OK**.
↳ A list of CAM applications appears.
- 4 Press the **Navigation buttons** to select a CAM application.
- 5 Press **OK** to confirm your choice.
↳ The selected CAM application is enabled.

Assign a channel decoder

Before using a SCART digital channel decoder, select the channel to decode and assign the decoder to **EXT 1** or **EXT 2**.

- 1 While watching TV, press **⬆ (Home)**.
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Installation] > [Decoder] > [Channel]**.
- 5 Press the **Navigation buttons** to select **[Status]**, then the location of the decoder (eg. **EXT 1** or **EXT 2**).
- 6 Press **OK** to confirm your choice.
↳ The decoder is assigned.

Use Philips EasyLink

Your TV supports Philips EasyLink, which uses the HDMI CEC (Consumer Electronics Control) protocol. EasyLink-compliant devices that are connected through HDMI connectors can be controlled by a single remote control.

Note

- Philips does not guarantee 100% interoperability with all HDMI CEC devices.

Note

- The EasyLink-compliant device must be switched on and selected as the source.

EasyLink features

One-touch play

When you connect your TV to devices that support one-touch play, you can control your TV and the devices with one remote control.

One-touch standby

When you connect your TV to devices that support standby, you can use your TV remote control to put your TV and all connected HDMI devices in standby mode.

System audio control

When you connect your TV to HDMI CEC compliant devices, your TV can switch automatically to play audio from the connected device.

To use one-touch audio, you must map the audio input from the connected device to your TV.

You can use the remote control from the connected device to adjust the volume.

Remote control (RC) key forwarding

RC key forwarding allows you to control EasyLink-compliant devices using your TV remote control.

EasyLink buttons

You can control EasyLink-compliant devices with the following buttons on the remote control of your TV.

Button	EasyLink function
▶ (Play/Pause)	Starts, pauses or resumes playback on your EasyLink device.
■ (Stop)	Stops playback on your EasyLink device.
● (Record)	Starts or stops video recording on your EasyLink device.
◀◀ (Previous)	Searches backward on your EasyLink device.
▶▶ (Next)	Searches forward on your EasyLink device.
0-9 (Numeric buttons)	When EasyLink is enabled, selects a title, chapter or track.
▲▼◀▶ (Navigation buttons)	Navigates through the menus of your EasyLink devices.
OK	Activates a selection or accesses the menu of your EasyLink device.
☰ (OPTIONS)	Displays the menus of your EasyLink device. Note that when ▲ (Home) is pressed, the TV menu is displayed.
TV	Switches back to the antenna source from EasyLink mode.
⏻ (Standby-On)	When EasyLink is enabled, switches the TV and all EasyLink devices to standby. Note that you must press and hold ⏻ (Standby-On) for at least 3 seconds for this to occur.

Enable or disable EasyLink

Note

- Do not enable Philips EasyLink if you do not intend to use it.

- When watching TV, press **▲ (Home)**.
↳ The home menu appears.

- Press the **Navigation buttons** to select **[Setup]**.
↳ The **[Setup]** menu appears.
- Press the **Navigation buttons** to select **[Installation] > [Preferences] > [EasyLink]**.
↳ The EasyLink menu appears.
- Select **[On]** or **[Off]**.
- Press **OK** to confirm your choice.
↳ EasyLink is enabled or disabled.

Enable or disable remote control key forwarding

Note

- Enable EasyLink before enabling remote control key forwarding.

- When watching TV, press **▲ (Home)**.
↳ The home menu appears.
- Press the **Navigation buttons** to select **[Setup]**.
↳ The **[Setup]** menu appears.
- Press the **Navigation buttons** to select **[Installation] > [Preferences] > [EasyLink Remote Control]**.
- Select **[On]**, then press **OK**.
↳ RC key forwarding is enabled or disabled on the selected HDMI connector.

Note

- If you cannot exit from a device's menu, press **☰ (OPTIONS)** then **OK**.

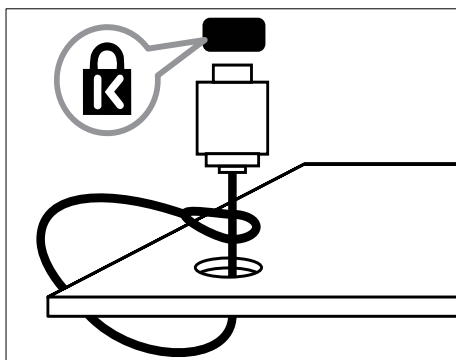
Set TV speakers to EasyLink mode

When enabled, this feature automatically turns off TV speakers when content from an EasyLink-compliant home theatre system is played. Audio is played only from the home theatre system's speakers.

- 1 When watching content from an EasyLink device, press **⏻** **OPTIONS**.
↳ The options menu appears.
- 2 Press the **Navigation buttons** to select **[TV speakers]**.
↳ The **[TV speakers]** menu appears.
- 3 Press the **Navigation buttons** to select **[Automatic (EasyLink)]**.
- 4 Press **OK** to confirm your choice.
↳ The TV speakers are set to EasyLink mode.
- 5 Press **⏻** **OPTIONS** to exit.

Use a Kensington lock

There is a Kensington security slot at the back of the TV. Prevent theft by looping a Kensington lock between the slot and a permanent object, such as a heavy table.



8 Product information

Product information is subject to change without notice. For detailed product information, go to www.philips.com/support.

Supported display resolutions

Computer formats

- Resolution - refresh rate:
 - 640 × 480 - 60Hz
 - 800 × 600 - 60Hz
 - 1024 × 768 - 60Hz
 - 1280 × 1024 - 60 Hz (supported on full HD TVs only)
 - 1360 × 768 - 60Hz
 - 1600 × 1200 - 60Hz (supported on full HD TVs only)
 - 1920 × 1080 - 60Hz

Video formats

- Resolution - refresh rate:
 - 480i - 60Hz
 - 480p - 60Hz
 - 576i - 50Hz
 - 576p - 50Hz
 - 720p - 50Hz, 60Hz
 - 1080i - 50Hz, 60Hz
 - 1080p - 24Hz, 25Hz, 30Hz, 50Hz, 60Hz

Multimedia

- Supported storage device: USB (FAT or DOS-formatted; Mass Storage Class compliant only)
- Images: JPEG
- Supported multimedia file formats:

Format	Video	Audio	File extension
AVI	MPEG-4 SP, MPEG-4 ASP	MPEG Layer 2/3, AC3	.avi
mpeg	MPEG-1, MPEG-2	MPEG-1 Layer 2, LPCM, AC3	.mpg, .mpeg, .vob
mpeg4	MPEG-4 AVC (H.264, L2-CIF), MPEG-4 AVC (H.264, L4-HD)	AAC-LC, AAC-HE	.mp4
WMV (Only available on PFL86XXH)	WMV9/VC1	.wma	.wmv



Note

- Multimedia file names must not exceed 128 characters.
- Supported media server software (*This feature is available in selected models only):
 - Windows Media Player 11 (Microsoft Windows XP or Vista)
 - PacketVideo Twonky Media 4.4.9 (Microsoft Windows or Macintosh OS X)
 - Sony Vaio media server (Microsoft Windows XP or Vista)
 - TVersity v.0.9.10.3 (Microsoft Windows XP)
 - Nero 8 - Nero MediaHome (Microsoft Windows XP)
 - DiXiM (Microsoft Windows XP)
 - Macrovision Network Media Server (Microsoft Windows XP)
 - Fuppes (Linux)
 - UShare (Linux)
 - Philips Media Manager (Microsoft Windows XP)

- Supported NAS:
 - Philips NAS SPD8020

Tuner/Reception/ Transmission

- Antenna input: 75ohm coaxial (IEC75)
- TV system: DVB COFDM 2K/8K
- Video playback: NTSC, SECAM, PAL
- DVB-T (Digital Video Broadcasting-Terrestrial) and DVB-C (Digital Video Broadcasting-Cable). See listed countries on the back of the TV

Remote control

- Type: RC4495
- Batteries: 3 x AAA (LR03 type)

Power

- Mains power: AC 220-240; 50Hz
- Standby power: < 0.15W
- Ambient temperature: 5 to 35 degrees Celsius

Supported TV mounts

To mount the TV, purchase a Philips TV mount or a VESA-compatible TV mount. To prevent damage to cables and connectors, be sure to leave a clearance of at least 2.2 inches or 5.5cm from the back of the TV.



Warning

- Follow all instructions provided with the TV mount. Koninklijke Philips Electronics N.V. bears no responsibility for improper TV mounting that results in accident, injury or damage.

TV screen size	Recommended VESA mount
19 inches/ 48 cm	VESA MIS-D 75, 4
22 inches/ 56 cm	VESA MIS-D 100, 4
26 inches/ 69 cm	VESA MIS-E 200, 100, 4
32 inches/ 81 cm	VESA MIS-F 200, 200, 6
37 inches/ 94 cm	VESA MIS-F 200, 200, 6
42 inches/ 107 cm	VESA MIS-F 400, 400, 6
47 inches/ 119 cm	VESA MIS-F 400, 400, 8
52 inches/ 132 cm	VESA MIS-F 400, 400, 8

EPG information

8 days EPG is only available in some countries

Country	8 days EPG
UK	Yes
France	No
Finland	Yes
Sweden	Yes
Denmark	Yes
Norway	Yes
Spain	Yes
Germany	Yes
Italy	Yes
Greece	No
Netherlands	Yes
Czech Republic	Yes
Belgium	No
Austria	Yes
Switzerland	Yes
Estonia	Yes
Lithuania	Yes
Croatia	No
Hungary	No
Ireland	No
Luxemburg	No
Poland	No
Portugal	No
Russia	No
Slovakia	No
Slovenia	No
Romania	No
Serbia	No
Latvia	No
Ukraine	No
Bulgaria	No
Kazakhstan	No

9 Troubleshooting

This section describes commonly encountered issues and accompanying solutions.

General TV issues

The TV does not switch on:

- Disconnect the power cable from the power outlet. Wait for one minute then reconnect it.
- Check that the power cable is securely connected.

The TV does not respond to remote control or side controls when switched on

- When the TV is switched on, the front LED indicator flashes for about 20 to 25 seconds. This is normal behaviour. During this time, the TV will not respond to the remote control or side controls. When a picture appears on-screen, the TV responds only to the following remote control buttons for the first few seconds:  +/- (VOLUME +/-), P +/- (Program +/-), * (MUTE) and  (Standby-On). All buttons can be used when the front LED indicator stops flashing.

The remote control is not working properly:

- Check that the remote control batteries are correctly inserted according to the +/- orientation.
- Replace the remote control batteries if they are flat or weak.
- Clean the remote control and TV sensor lens.

The standby light on the TV blinks red:

- Disconnect the power cable from the power outlet. Wait until the TV cools down before reconnecting the power cable. If the blinking reoccurs, contact Philips Consumer Care.

You forgot the code to unlock the child lock feature

- Enter '8888'.

The TV menu is in the wrong language.

- Change the TV menu to your preferred language (see 'Change language settings' on page 14).

When turning the TV on/off/to standby, you hear a creaking sound from the TV chassis:

- No action is required. The creaking sound is normal expansion and contraction of the TV as it cools down and warms up. This does not impact performance.

When the TV is in standby mode, a startup splash screen is displayed, then returns to standby mode.

- This is normal behavior. The startup screen is displayed when the TV is disconnected from the mains and reconnected.

TV channel issues

Previously installed channels do not appear in the channel list:

- Check that the correct channel list is selected.

No digital channels were found during the installation:

- Check that the TV supports DVB-T, DVB-T Lite or DVB-C in your country. See the listed countries on the back of the TV.

Picture issues

The TV is on, but there is no picture:

- Check that the antenna is properly connected to the TV.
- Check that the correct device is selected as the TV source.

There is sound but no picture:

- Check that the picture settings are correctly set.

There is poor TV reception from an antenna connection:

- Check that the antenna is properly connected to the TV.

- Loudspeakers, unearthed audio devices, neon lights, high buildings and other large objects can influence reception quality. If possible, try to improve the reception quality by changing the antenna direction or moving devices away from the TV.
- If reception on only one channel is poor, fine tune this channel.

There is poor picture quality from connected devices:

- Check that the devices are connected properly.
- Check that the picture settings are correctly set.

The TV did not save your picture settings:

- Check that the TV location is set to the home setting. This mode offers you the flexibility to change and save settings.

The picture does not fit the screen; it is too big or too small:

- Try using a different picture format.

The picture position is incorrect:

- Picture signals from some devices may not fit the screen correctly. Check the signal output of the device.

The picture from broadcasts is scrambled:

- You may need to use a Conditional Access Module to access content. Check with your operator.

An “e-sticker” banner displaying information appears on the TV display:

- The TV is in **[Shop]** mode. Remove the e-sticker by setting the TV to **[Home]** mode. In the **[Home]** menu, select **[Setup] > [Installation] > [Preferences] > [Location]** menu. It is necessary to switch the TV to standby to ensure that the TV exits **[Shop]** mode completely.

Sound issues

There is a picture but sound quality is poor:



Note

- If no audio signal is detected, the TV automatically switches the audio output off — this does not indicate malfunction.

- Check that all cables are properly connected.
- Check that the volume is not set to 0.
- Check that the sound is not muted.
- Check that the TV speakers setting is on in the sound menu.
- Check that the TV audio output is connected to the audio input on the HDMI CEC enabled/EasyLink-compliant HTS device. Sound should be heard from the HTS speakers.

There is a picture but the sound quality is poor:

- Check that the sound settings are correctly set.

There is a picture but sound comes from one speaker only:

- Verify that sound balance is set to the centre.

HDMI connection issues

There are problems with HDMI devices:

- Note that HDCP support can delay the time taken for a TV to display content from a HDMI device.
- If the TV does not recognize the HDMI device and no picture is displayed, try switching the source from one device to another and back again.
- If there are intermittent sound disruptions, check that output settings from the HDMI device are correct.
- If a HDMI-to-DVI adaptor or HDMI to DVI cable is used, check that an additional audio cable is connected to **AUDIO L/R** or **AUDIO IN** (mini-jack only).

You cannot use EasyLink features:

- Check that your HDMI devices are HDMI-CEC compatible. EasyLink features only work with devices that are HDMI-CEC compatible.

If a HDMI CDC/EasyLink-compliant audio device is connected to the TV and the TV does not display any mute or volume icon when the volume is muted, increased or decreased.

- This behavior is normal when a HDMI CEC/EasyLink-compliant device is connected.

USB connection issues

USB device content is not displayed:

- Check that the USB storage device is set to 'Mass Storage Class' compliant, as described in the storage device's documentation.
- Check that the USB storage device is compatible with the TV.
- Check that the audio and picture file formats are supported by the TV.

Audio and picture files do not play or display smoothly

- The transfer performance of the USB storage device may limit the data transfer rate to the TV, causing poor playback.

Computer connection issues

The computer display on the TV is not stable:

- Check that a supported resolution and refresh rate is selected on the computer.
- Set the TV picture format to unscaled.

Contact us

If you cannot resolve your problem, refer to the FAQs for this TV at www.philips.com/support.

If the problem remains unresolved, contact Philips Consumer Care in your country as listed in this user manual.



Warning

- Do not attempt to repair the TV yourself. This may cause severe injury, irreparable damage to your TV or void your warranty.



Note

- Make a note of your TV model and serial number before you contact Philips. These numbers are printed on the back of the TV and on the packaging.

10 Universal remote control codes

Enter a remote control code from this list to setup universal remote control (see 'Manually setup universal remote control' on page 35).

DVD codes : DVD player, DVD Recorder, DVD-R HDD, Blu-ray Disc player.

Philips - 0000, 0001, 0002, 0003, 0004, 0005, 0006, 0007, 0008, 0009, 0010, 0012, 0064, 0065, 0066, 0067, 0094, 0098, 0103, 0122, 0131, 0132, 0140, 0143, 0144, 0170, 0174, 0175, 0177, 0180, 0190, 0206, 0240, 0255, 0264, 0287, 0293, 0295, 0296, 0302, 0309, 0316, 0317, 0318, 0325, 0327, 0333, 0334

Philips Magnavox - 0094

4Kus - 0287

Acoustic Solutions - 0011

AEG - 0135

Airis - 0290

Aiwa - 0113, 0163, 0312, 0343

Akai - 0097

Akura - 0281

Alba - 0112, 0121, 0124, 0127, 0138

Alize - 0285

Amitech - 0135

AMOi - 0225

AMW - 0114, 0354

Andersson - 0355

Apex - 0107

Ason - 0290

ATACOM - 0290

Avious - 0288

Awa - 0114

Bang and Olufsen - 0291

Basic Line - 0356

CAT - 0272, 0273

Celestron - 0363

Centrex - 0158

Centrum - 0273, 0364

Baze - 0288

BBK - 0290

Bellagio - 0114

Best Buy - 0277

Boghe - 0289

BOSE - 0352, 0353, 0357, 0358, 0359, 0360, 0361, 0362

Bosston - 0271

Brainwave - 0135

Brandt - 0047, 0145, 0264

Britannia - 0268

Bush - 0121, 0127, 0134, 0169, 0176, 0265, 0267, 0275, 0279, 0288

Cambridge Audio - 0270

CGV - 0135, 0270

Cinetec - 0114

CineVision - 0278

Classic - 0104

Clatronic - 0275, 0288, 0365

Coby - 0284

Conia - 0265

Continental Edison - 0114

Crown - 0135, 0145

Crypto - 0280

C-Tech - 0142

CVG - 0135

CyberHome - 0061, 0062, 0063

Daenyx - 0114

Daewoo - 0092, 0114, 0135, 0186, 0193, 0195, 0348

Dalton - 0283

Dansai - 0135, 0269

Daytek - 0114, 0133, 0366

Dayton - 0114

DEC - 0275

Decca - 0135

Denon - 0118, 0205, 0209, 0214

Denon - 0118, 0205, 0209, 0214

Denver - 0124, 0203, 0275, 0281, 0284

Denzel - 0266

Desay - 0274

Diamond - 0142, 0270

Digiton - 0282 Digix Media - 0367

DK Digital - 0134, 0300

Dmtech - 0091, 0368

Dual - 0266, 0369

DVX - 0142

Easy Home - 0277

Eclipse - 0270
 E-Dem - 0290
 Electrohome - 0135
 Elin - 0135
 Elta - 0093, 0135, 0152, 0285
 Eltax - 0297, 0366
 Emerson - 0101
 Enzer - 0266
 Euroline - 0370
 Finlux - 0135, 0270, 0288, 0371
 Fintec - 0135, 0372
 Fisher - 0102
 Futronic - 0373
 Gericom - 0158
 Giec - 0289
 Global Solutions - 0142
 Global Sphere - 0142
 Go Video - 0095
 GoldStar - 0033
 Goodmans - 0085, 0112, 0121, 0127, 0158,
 0171, 0200, 0216, 0239, 0246, 0275, 0279, 0289
 Graetz - 0266
 Grundig - 0098, 0158, 0162, 0173
 Grunkel - 0135, 0286
 GVG - 0135
 H and B - 0275, 0276
 Haaz - 0142, 0270
 Harman/Kardon - 0350
 HiMAX - 0277
 Hitachi - 0022, 0095, 0106, 0121, 0172, 0188,
 0202, 0218, 0266, 0277, 0311
 Hoeher - 0290
 Home Tech Industries - 0290
 Humax - 0221
 Hyundai - 0224, 0286, 0374
 Infotech - 0375
 Innovation - 0099, 0100, 0106
 Jamo - 0376
 JBL - 0377
 Jeutech - 0271
 JVC - 0054, 0055, 0056, 0057, 0058, 0059, 0060,
 0079, 0080, 0081, 0082, 0141, 0153, 0157, 0161,
 0164, 0165, 0166, 0167, 0247, 0248, 0249, 0250,
 0251, 0252, 0253, 0254, 0264, 0301, 0337
 Kansai - 0284
 KEF - 0378
 Kennex - 0135

Kenwood - 0159, 0220, 0308, 0379
 KeyPlug - 0135
 Kiirio - 0135
 Kingavon - 0275
 Kiss - 0266, 0276
 Koda - 0275
 KXD - 0277
 Lawson - 0142
 Lecson - 0269
 Lenco - 0135, 0275, 0288
 Lenoxx - 0380
 LG - 0031, 0032, 0033, 0071, 0101, 0117, 0137,
 0204, 0229, 0234, 0258, 0313, 0329, 0330, 0331,
 0336
 Life - 0099, 0100
 Lifetec - 0099, 0100, 0106
 Limit - 0142
 Linn - 0381
 Liteon - 0287
 Loewe - 0098, 0175, 0213, 0382
 LogicLab - 0142
 Lumatron - 0383
 Luxor - 0158
 Magnavox - 0264, 0275, 0293
 Magnex - 0288
 Magnum - 0106
 Majestic - 0284
 Marantz - 0009, 0103, 0211, 0212
 Marquant - 0135
 Matsui - 0145, 0235
 MBO - 0110
 Mecotek - 0135
 Mediencom - 0268
 Medion - 0099, 0100, 0106, 0279, 0384
 Metz - 0096
 MiCO - 0270, 0289, 0385
 Micromaxx - 0099, 0100, 0106
 Micromedia - 0264
 Micromega - 0009
 Microstar - 0099, 0100, 0106
 Minoka - 0135
 Minowa - 0288
 Mirror - 0279
 Mivoc - 0386
 Mizuda - 0275, 0277
 Monyka - 0266
 Mustek - 0104, 0112, 0304

Mx Onda - 0270	Rimax - 0285
Mystral - 0286	Roadstar - 0121, 0267, 0275
NAD - 0109, 0387	Ronin - 0114
Naiko - 0135, 0158	Rowa - 0158, 0265
Nakamichi - 0111, 0388	Rownsonic - 0273
Neufunk - 0266	Saba - 0047, 0145
Nevir - 0135	Sabaki - 0142
Next Base - 0226	Saivod - 0135
NU-TEC - 0265	Sampo - 0105
Omni - 0268	Samsung - 0022, 0023, 0024, 0025, 0076, 0077, 0078, 0095, 0123, 0136, 0151, 0184, 0194, 0207, 0217, 0307, 0340, 0341, 0349
Onkyo - 0215, 0264, 0293	Sansui - 0135, 0142, 0270, 0392
Oopla - 0287	Sanyo - 0147, 0150, 0181, 0185, 0306
Optim - 0269	ScanMagic - 0112
Optimus - 0294	Scientific Labs - 0142
Orava - 0275	Scott - 0124, 0283
Orbit - 0114	Seeltech - 0290
Orion - 0176	SEG - 0090, 0114, 0121, 0142, 0179, 0266
Oritron - 0100	Sharp - 0099, 0109, 0149, 0168, 0178, 0199, 0210, 0230, 0231, 0256, 0257, 0262
P and B - 0275	Sherwood - 0108
Pacific - 0142	Sigmathek - 0277, 0290
Palladium - 0389	Silva - 0281
Palsonic - 0267	Singer - 0142, 0270
Panasonic - 0026, 0027, 0028, 0029, 0030, 0118, 0120, 0125, 0126, 0128, 0129, 0130, 0189, 0201, 0241, 0243, 0244, 0245, 0259, 0260, 0261, 0298, 0303, 0319, 0320, 0321, 0322, 0323, 0326, 0335, 0342, 0344	Skymaster - 0104, 0142
peekTON - 0290, 0390	Skyworth - 0281
Pensonic - 0227	Slim Art - 0135
Phonotrend - 0288	SM Electronic - 0142
Pioneer - 0034, 0035, 0036, 0037, 0038, 0039, 0040, 0072, 0073, 0074, 0075, 0096, 0115, 0119, 0154, 0155, 0156, 0191, 0192, 0196, 0197, 0198, 0236, 0294, 0314, 0332	Sontech - 0286
Pointer - 0135	Sony - 0013, 0014, 0015, 0016, 0017, 0018, 0019, 0020, 0021, 0068, 0069, 0070, 0113, 0116, 0139, 0146, 0148, 0183, 0232, 0242, 0299, 0305, 0310, 0324, 0328, 0346
Polaroid - 0222	Soundmaster - 0142
Portland - 0135	Soundmax - 0142
Powerpoint - 0114	Spectra - 0114
Proline - 0158	Standard - 0142
Promax - 0223	Star Cluster - 0142
Prosonic - 0135, 0284	Starmedia - 0275, 0290
Provision - 0275	Sunkai - 0135
Raite - 0266	Supervision - 0142
REC - 0267, 0268	Synn - 0142
RedStar - 0135, 0281, 0284, 0391	T.D.E. Systems - 0286
Reoc - 0142	T+A - 0393
Revoy - 0276	Tatung - 0135
	TCM - 0023, 0099, 0100, 0106, 0292, 0397

Teac - 0096, 0142, 0208, 0265, 0394
 Tec - 0281
 Technics - 0118
 Technika - 0135, 0288
 Telefunken - 0273
 Tensai - 0135
 Tevion - 0099, 0100, 0106, 0142, 0283
 Thomson - 0046, 0047, 0048, 0049, 0050, 0051, 0052, 0053, 0083, 0084, 0233, 0263, 0339, 0347
 Tokai - 0266, 0281
 Top Suxess - 0290
 Toshiba - 0012, 0041, 0042, 0043, 0044, 0045, 0086, 0087, 0088, 0089, 0094, 0182, 0187, 0219, 0237, 0238, 0264, 0293, 0345
 TRANS-continents - 0114, 0288
 Transonic - 0288
 Trio - 0135
 TruVision - 0277
 TSM - 0290
 Umax - 0285
 Union - 0351
 United - 0288
 Universum - 0395
 Viewmaster - 0290
 Vtrek - 0280
 Waitec - 0290
 Welltech - 0289
 Wharfedale - 0142, 0270
 Wintel - 0271
 Woxter - 0285, 0290
 Xbox - 0048
 Xenon - 0228
 Xlogic - 0135, 0142
 XMS - 0135, 0267
 Xoro - 0289, 0396
 Yakumo - 0158
 Yamada - 0114, 0158, 0285, 0287
 Yamaha - 0009, 0118, 0120, 0315, 0338
 Yamakawa - 0114, 0266
 Yukai - 0112, 0160
 Zenith - 0101, 0264, 0293

STB codes : Digital receiver

Philips - 0432, 0436, 0437, 0439, 0506
 ABC - 0448
 ADB - 0461, 0462

Alcatel - 0463, 0540
 Allegro - 0464
 Amstrad - 0431, 0449
 Andover - 0452
 Arcon - 0431
 Atlanta - 0465
 Auna - 0466
 Axis - 0431
 BBT - 0467
 Belgacom TV - 0468
 Bell Atlantic - 0453
 Birmingham Cable Communications - 0451
 British Telecom - 0448
 BT Cable - 0448
 Cabletime - 0538
 Clyde - 0454
 Clyde Cablevision - 0443
 Comcrypt - 0442, 0469
 Connect TV - 0470
 Coship - 0471
 Cryptovision - 0444, 0472
 Daehan - 0473
 Decsat - 0474
 Digi1 - 0475
 Eastern - 0476
 Electricord - 0477
 Electus - 0455
 Fastweb - 0478
 Fidelity - 0431
 Filmnet - 0442
 Filmnet Cablecrypt - 0445, 0539
 Filmnet Comcrypt - 0445
 Finlux - 0434
 Foxtel - 0449
 France Telecom - 0437, 0439, 0479
 Freebox - 0450, 0480
 GC Electronics - 0481
 GE - 0482
 GEC - 0443, 0454
 General Instrument - 0433, 0448, 0483
 Golden Channel - 0461
 Gooding - 0432
 Grundig - 0431, 0432
 Hirschmann - 0434
 Hitachi - 0484
 HomeChoice - 0441, 0485
 Humax - 0486, 0487

HyperVision - 0435
 ITT Nokia - 0434
 Jerrold - 0433, 0448, 0536
 Jiuzhou - 0488
 JVC - 0432
 Kabel Deutschland - 0489, 0490
 Kansalaisboksi - 0491
 LG Alps - 0492
 Macab - 0439
 Maestro - 0493
 Magnavox - 0494
 Maspro - 0432
 Matav - 0462
 Matsui - 0432
 Maxdome - 0489
 Medion - 0495
 Minerva - 0432
 Mnet - 0442, 0539
 Mood - 0496
 Motorola - 0497
 Movie Time - 0447
 Mr Zapp - 0439
 Multichoice - 0442
 NEC - 0498
 Neuf Telecom - 0533
 Nokia - 0434, 0499
 Noos - 0439
 Northcoast - 0500
 Novaplex - 0501
 Now - 0502
 NTL - 0456
 Omniview - 0503
 Ono - 0457, 0504
 Orange - 0534
 Pace - 0535
 Pacific - 0505
 Palladium - 0432
 Pioneer - 0431
 Prelude - 0507
 Protelcon - 0508
 PVP Stereo Visual Matrix - 0536
 Regency - 0509
 Sagem - 0439
 Samsung - 0440, 0502
 SAT - 0431
 Satbox - 0458
 Satel - 0459

Scientific Atlanta - 0446
 Seam - 0510
 Sharp - 0511
 SingTel - 0512
 SkyCable - 0513
 Skyworth - 0514
 Starcom - 0448
 Stargate - 0515
 Stellar One - 0516
 TaeKwang - 0517
 Tandy - 0518
 Tatung - 0519
 Teknika - 0520
 Tele+1 - 0442, 0445, 0539
 Telefonica - 0460
 Telegent - 0521
 Telenet - 0522
 Telepiu - 0442, 0539
 Thomson - 0438
 Timeless - 0476
 Tiscali - 0523
 Tocom - 0524

STB codes : Satellite receiver

Philips - 0000, 0001, 0002, 0008, 0020, 0054,
 0065, 0069, 0070, 0072, 0075, 0077, 0111, 0119,
 0136, 0140, 0144, 0155, 0156, 0159, 0163, 0165,
 0388, 0390, 0391, 0392, 0396, 0410, 0412, 0420,
 0422, 0423, 0427
 AB Sat - 0163, 0164, 0173, 0425
 Action - 0187
 ADB - 0175, 0188
 Aegir - 0189
 AGS - 0163
 Akai - 0054, 0391
 Akura - 0190
 Alba - 0015, 0019, 0020, 0021, 0023, 0044,
 0067, 0164, 0234, 0412
 Aldes - 0021, 0023, 0024, 0234, 0395
 Allantide - 0191
 Allegro - 0192
 Allsat - 0040, 0054, 0193, 0384, 0390, 0391
 Allsonic - 0010, 0023, 0028, 0395, 0402
 Alltech - 0164, 0414
 Alpha - 0391
 Altai - 0403

Amino - 0194
 Amitronica - 0164
 Ampere - 0153, 0403
 Amstrad - 0026, 0055, 0074, 0108, 0153, 0158,
 0164, 0169, 0195, 0394, 0399, 0403, 0415, 0417,
 0421, 0426
 Amway - 0196
 Anglo - 0164
 Ankaro - 0010, 0023, 0028, 0164, 0197, 0392,
 0395, 0402
 AntSat - 0198
 Anttron - 0019, 0023, 0390, 0412
 AnySat - 0199
 Apollo - 0019
 Arcon - 0027, 0041, 0153, 0419
 Arion - 0200
 Ariza - 0201
 Armstrong - 0026, 0391
 Arroxx - 0202
 ASA - 0404
 Asat - 0054, 0391
 ASCI - 0203
 ASLF - 0164
 AST - 0031, 0204, 0397
 Astacom - 0163, 0420
 Aston - 0022, 0205
 Astra - 0026, 0029, 0030, 0050, 0161, 0164,
 0206, 0387, 0400, 0407
 Astratec - 0207
 Astro - 0010, 0023, 0024, 0028, 0033, 0155,
 0156, 0158, 0161, 0208, 0388, 0402, 0412
 Atlanta - 0209
 AudioTon - 0023, 0040, 0412
 Aurora - 0168, 0210
 Austar - 0071, 0168, 0211
 Avalon - 0403
 Axiel - 0163
 Axil - 0212
 Axis - 0010, 0028, 0030, 0036, 0401, 0402, 0407
 B and K - 0213
 Barcom - 0027
 BeauSAT - 0212
 BEC - 0214
 Beko - 0215
 Belgacom TV - 0216
 Belson - 0217
 Benjamin - 0218
 Best - 0010, 0027, 0028, 0402
 Best Buy - 0219
 Big Brother - 0191
 Blackbird - 0220
 Blaupunkt - 0033, 0155, 0388
 Blue Sky - 0164, 0169
 Boca - 0026, 0050, 0153, 0164, 0221, 0378,
 0410, 0416
 Boom - 0222
 BOSE - 0223
 Boston - 0153, 0163, 0224
 Brain Wave - 0035, 0398, 0419
 Brandt - 0056
 Broadcast - 0034, 0400
 Broco - 0164, 0407
 BSKyB - 0074, 0084, 0426
 BT - 0066, 0163
 BT Satellite - 0420
 Bubu Sat - 0164
 Bush - 0020, 0044, 0090, 0234, 0384, 0390
 BVV - 0419
 Cable Innovations - 0225
 Cambridge - 0158, 0226, 0416
 Camundosat - 0227
 Canal Digital - 0176, 0180, 0181
 Canal Satellite - 0005, 0156, 0396, 0427
 Canal+ - 0156, 0228
 CCI - 0229
 cello - 0230
 CellularVision - 0231
 Century - 0232
 CGV - 0233
 Channel Master - 0021, 0234
 Chaparral - 0052, 0235
 CHEROKEE - 0163, 0173
 Chesley - 0212
 Chess - 0154, 0160, 0164, 0221
 Chili - 0236
 Churchill - 0237
 Citizen - 0238
 CityCom - 0020, 0037, 0071, 0152, 0161, 0165,
 0423
 Clatronic - 0035, 0398
 Clemens Kamphus - 0046
 CNT - 0024
 Colombia - 0153
 Columbia - 0153

COLUMBUS - 0043
 Comag - 0153, 0221, 0239
 Commander - 0392
 Commlink - 0023, 0395
 Comtec - 0036, 0395, 0401
 Condor - 0010, 0028, 0161, 0240, 0402
 Connexions - 0010, 0032, 0402, 0403
 Conrad - 0010, 0152, 0153, 0158, 0161, 0402, 0409, 0410
 Conrad Electronic - 0161, 0164
 Contec - 0036, 0037, 0401, 0410
 Continental Edison - 0241
 Cosat - 0040
 Coship - 0212
 Crown - 0026, 0242
 CyberHome - 0243
 Cybermaxx - 0062
 Cyrus - 0174
 Daeryung - 0032
 Daewoo - 0066, 0164, 0244
 Dansat - 0384, 0390
 D-Box - 0245, 0429
 DDC - 0021, 0234
 Decca - 0038
 Delega - 0021
 Demo - 0246
 Dew - 0036, 0401
 DGStation - 0086
 Diamond - 0039
 Digenius - 0247
 Dignality - 0161, 0248
 Digiline - 0249
 DigiO2 - 0250
 Digipro - 0170
 DigiQuest - 0251
 DigitAll World - 0252
 Digiturk - 0253
 Dilog - 0254
 DiPro - 0212
 Discoverer - 0154, 0160
 Discovery - 0163
 Diseqc - 0163
 Diskxpress - 0027
 Distratel - 0169
 DISTRISAT - 0391
 Ditristrad - 0040
 DNR - 0419
 DNT - 0032, 0054, 0391, 0403
 Dong Woo - 0049
 Drake - 0041, 0255
 DStv - 0168, 0256
 Dual - 0257
 Dune - 0010, 0402
 Dynasat - 0162
 DynaStar - 0258
 Echostar - 0032, 0164, 0173, 0403, 0427, 0428
 EIF - 0259
 Einhell - 0019, 0023, 0026, 0153, 0158, 0164, 0394, 0395
 Elap - 0163, 0164
 Electron - 0260
 Elekta - 0024
 Elsat - 0164, 0417
 Elta - 0010, 0019, 0028, 0040, 0054, 0261, 0391, 0402
 Emanon - 0019
 Emme Esse - 0010, 0028, 0046, 0162, 0402, 0428
 Engel - 0164, 0262
 Ep Sat - 0020
 Erastar - 0263
 EURIEULT - 0013, 0108, 0169
 Euro1 - 0264
 Eurocrypt - 0387
 Eurodec - 0060, 0265
 Europa - 0158, 0161, 0391, 0392, 0410
 European - 0064
 Europhon - 0153, 0161
 Europlus - 0266
 Eurosat - 0026
 Eurosky - 0010, 0026, 0028, 0152, 0153, 0158, 0161, 0402
 Eurospace - 0042
 Eurostar - 0026, 0152, 0161, 0162, 0165, 0430
 Euskaltel - 0267
 Eutelsat - 0164
 Eutra - 0414
 Exator - 0019, 0023, 0412
 Fast - 0268
 Fenner - 0010, 0154, 0160, 0164
 Ferguson - 0020, 0060, 0114, 0384, 0390
 Fidelity - 0158, 0394, 0415
 Finepass - 0269
 Finlandia - 0020, 0387

Finlux - 0020, 0387, 0405, 0409
 FinnSat - 0036, 0060, 0270
 Flair Mate - 0164
 Fortec Star - 0198
 Foxtel - 0071, 0168, 0172
 Fracarro - 0271, 0428
 France Satellite/TV - 0043
 Freecom - 0019, 0045, 0155, 0158
 Freesat - 0108, 0414
 FTE - 0047, 0402, 0410, 0416
 FTEmaximal - 0010, 0164
 Fuba - 0010, 0019, 0027, 0028, 0029, 0032,
 0033, 0043, 0054, 0152, 0155, 0387, 0402, 0403
 Fugionkyo - 0170
 Fujitsu - 0182
 Galaxi - 0027
 Galaxis - 0010, 0023, 0028, 0030, 0036, 0040,
 0044, 0059, 0071, 0127, 0152, 0168, 0395, 0401,
 0402, 0407
 Galaxisat - 0397
 Gardiner - 0165
 Gecco - 0272
 General Instrument - 0273
 Gensat - 0274
 Geotrack - 0275
 Globo - 0276
 GMI - 0026
 Goldbox - 0156, 0396, 0427
 Golden Interstar - 0277
 GoldStar - 0045
 Gooding - 0159
 Goodmans - 0015, 0016, 0020, 0044
 Gould - 0278
 Granada - 0387
 Grandin - 0013, 0385
 Grothusen - 0019, 0045
 Grundig - 0020, 0023, 0033, 0055, 0074, 0099,
 0100, 0101, 0109, 0133, 0148, 0155, 0158, 0159,
 0168, 0169, 0388, 0399, 0422, 0426
 G-Sat - 0390
 Hanseatic - 0160, 0279, 0411
 Haensel and Gretel - 0153, 0161
 Hantor - 0019, 0035, 0049, 0398
 Hanuri - 0024
 Harting und Helling - 0046
 Hase and Igel - 0419
 Hauppauge - 0089, 0113
 Heliocom - 0161, 0280
 Helium - 0161
 Hinari - 0021, 0234, 0390
 Hirschmann - 0010, 0033, 0046, 0098, 0108,
 0155, 0158, 0161, 0163, 0388, 0403, 0404, 0406,
 0409
 Hisawa - 0035, 0398
 Hitachi - 0020, 0281
 Hivion - 0282
 HNE - 0153
 Homecast - 0283
 Houston - 0040, 0284, 0392
 Humax - 0011, 0012, 0050, 0071, 0085, 0086,
 0094, 0097, 0121, 0122, 0123, 0124, 0128, 0129,
 0149
 Huth - 0023, 0026, 0034, 0035, 0036, 0040,
 0046, 0153, 0161, 0171, 0392, 0395, 0398, 0400,
 0401, 0410
 Hypson - 0013
 ID Digital - 0071
 Imex - 0013
 Imperial - 0044
 Ingelen - 0108
 Innovation - 0028, 0059, 0062
 InOutTV - 0285
 International - 0153
 Interstar - 0170
 Intertronic - 0026, 0286
 Intervention - 0040, 0161, 0413
 Inverto - 0287
 InVideo - 0179
 IRTE - 0288
 ITT Nokia - 0020, 0387, 0404, 0409, 0429
 Janeil - 0289
 Jazztel - 0290
 Johansson - 0035, 0398
 JOK - 0163, 0418, 0420
 JSR - 0040
 JVC - 0015, 0159, 0291
 Kamm - 0164
 Kaon - 0292
 Kathrein - 0033, 0037, 0047, 0052, 0054, 0068,
 0073, 0080, 0091, 0092, 0093, 0095, 0118, 0120,
 0130, 0131, 0152, 0155, 0163, 0164, 0165, 0173,
 0388, 0391, 0406, 0412, 0423
 Kathrein Eurostar - 0152
 Kenwood - 0176, 0293

Key West - 0153	Matsui - 0155, 0159, 0163, 0234, 0388, 0420
Klap - 0163	Max - 0161
Kolon - 0177	Maxi - 0304
Konig - 0161, 0294	MB - 0160, 0411
Kosmos - 0045, 0046, 0047, 0295, 0406	Mediabox - 0156, 0396, 0427
KR - 0023, 0412, 0414	Mediamarkt - 0026
Kreatel - 0296	Mediasat - 0030, 0156, 0158, 0396, 0407, 0427
Kreiselmeier - 0033, 0155, 0388	Medion - 0010, 0028, 0059, 0062, 0132, 0153, 0164, 0402
K-SAT - 0164	Medison - 0164
Kyostar - 0019, 0153, 0297, 0412	Mega - 0054, 0391
L and S Electronic - 0010, 0153	Meletronic - 0165
Lasat - 0010, 0024, 0028, 0048, 0049, 0050, 0056, 0152, 0153, 0154, 0161, 0401, 0402, 0416	Meta - 0305
Lemon - 0419	Metronic - 0013, 0014, 0019, 0023, 0024, 0027, 0164, 0165, 0169, 0306, 0385, 0395, 0412, 0423
Lenco - 0010, 0019, 0045, 0051, 0152, 0161, 0164, 0257, 0392, 0402, 0407, 0419	Metz - 0033, 0155, 0388
Leng - 0035	Micro Com - 0089
Lennox - 0040	Micro electronic - 0158, 0161, 0164
Lenson - 0158	Micro Technology - 0042, 0164, 0407
Lexus - 0391	Micromaxx - 0010, 0028, 0059, 0062
LG - 0045, 0208	Micronik - 0307
Life - 0059	Microstar - 0028, 0059, 0062
Lifesat - 0010, 0028, 0059, 0062, 0153, 0154, 0160, 0164, 0402, 0411	Microtec - 0164
Lifetec - 0028, 0059, 0062	Minerva - 0033, 0159
Lion - 0042, 0191	Mitsubishi - 0020, 0033
Loewe - 0147	Mitsumi - 0050
Lorenzen - 0153, 0161, 0298, 0392, 0419, 0421	Mogen - 0308
Lorraine - 0045	Morgan Sydney - 0061
Lupus - 0010, 0028, 0402	Morgan's - 0026, 0050, 0054, 0153, 0164, 0391, 0410, 0416
Luxor - 0158, 0387, 0399, 0409, 0429	Motorola - 0167
Luxorit - 0299	Multichoice - 0168, 0175
LuxSAT - 0300	Multiscan - 0309
Lyonnaise - 0060	Multistar - 0047, 0049
M and B - 0160, 0411	Multitec - 0154
M Technologies - 0301	Muratto - 0045, 0397
Macab - 0060	Mustek - 0310
Macom - 0183	Mysat - 0164
Manata - 0013, 0153, 0163, 0164, 0420	National Microtech - 0311
Manhattan - 0020, 0024, 0040, 0163, 0420	Navex - 0035, 0398
Marann - 0302	NEC - 0053, 0312, 0389
Marantz - 0054	Nesco - 0313
Marks and Spencer - 0303	Neta - 0314
Mascom - 0024, 0406	Netgem - 0315
Maspro - 0020, 0052, 0155, 0159, 0164, 0386, 0388, 0414, 0419	Network - 0390
Master's - 0037	Neuhaus - 0030, 0040, 0158, 0161, 0164, 0392, 0407, 0410, 0419

Neusat - 0164, 0419
 Newave - 0316
 NextWave - 0025, 0171, 0262
 Nikko - 0026, 0164
 Nokia - 0020, 0082, 0083, 0104, 0143, 0145, 0387, 0404, 0409, 0429
 Nomex - 0063
 Nordmende - 0019, 0020, 0021, 0024, 0060, 0234, 0398
 Nova - 0168
 Novis - 0035, 0398
 Now - 0317
 NTC - 0046
 Numericable - 0380
 Oceanic - 0039, 0042
 Octagon - 0019, 0023, 0036, 0392, 0401, 0412
 Okano - 0026, 0046, 0047
 Ondigital - 0393
 Optex - 0037, 0040
 Optus - 0156, 0168, 0171
 Orbit - 0031, 0381
 Orbitech - 0019, 0154, 0156, 0158, 0408, 0410
 Origo - 0042, 0157
 Oritron - 0318
 Osat - 0023, 0399
 Otto Versand - 0033
 Oxford - 0178
 Pace - 0020, 0033, 0044, 0055, 0074, 0088, 0102, 0110, 0112, 0116, 0125, 0134, 0135, 0163, 0173, 0319, 0384, 0390, 0393, 0426
 Pacific - 0039, 0320
 Packsat - 0163
 Pal - 0321
 Palcom - 0021, 0029, 0043, 0234, 0322
 Palladium - 0026, 0158, 0159
 Palsat - 0154, 0158
 Paltec - 0029
 Panasat - 0168
 Panasonic - 0020, 0055, 0074, 0078, 0142, 0426
 Panda - 0020, 0155, 0161, 0384, 0387
 Pansat - 0323
 Pantech - 0324
 Patriot - 0153, 0163
 Philon - 0325
 Phoenix - 0036, 0044, 0390, 0401
 Phonotrend - 0020, 0023, 0040, 0046, 0395
 Pioneer - 0087, 0156, 0326, 0427
 Polsat - 0060
 Polytron - 0037
 Praxis - 0327
 Predki - 0035, 0398
 Preisner - 0153, 0328, 0403, 0410, 0416
 Premiere - 0040, 0071, 0156, 0396, 0427
 Priesner - 0026
 Profi - 0051
 Profile - 0163
 Promax - 0020
 Prosat - 0021, 0023, 0044, 0234, 0395, 0413
 Prosonic - 0421
 Protek - 0039, 0329
 Provision - 0024
 Pye - 0159
 Pyxis - 0166
 Quadral - 0010, 0021, 0023, 0028, 0163, 0173, 0234, 0395, 0402, 0410, 0413, 0420
 Quelle - 0033, 0152, 0161, 0394
 Quiero - 0060
 Radiola - 0054, 0391
 Radix - 0032, 0079, 0108, 0330, 0403, 0414
 Rainbow - 0023, 0412, 0414
 Rediffusion - 0053
 Redpoint - 0030, 0407
 RedStar - 0010, 0028, 0402
 Regency - 0331
 RFT - 0023, 0054, 0391, 0392, 0395, 0408
 Roadstar - 0164
 Roch - 0013
 Rockdale - 0184
 Rover - 0010, 0164, 0413
 Ruefach - 0051
 Saba - 0024, 0042, 0056, 0152, 0161, 0163, 0169, 0390, 0418, 0419, 0420
 Sabre - 0020
 Sagem - 0005, 0060, 0146, 0332, 0424
 Sakura - 0036, 0044, 0401
 Salora - 0053, 0387
 Samsung - 0017, 0018, 0019, 0076, 0081, 0096, 0137
 Sansui - 0333
 Sanyo - 0334
 SAT - 0021, 0031, 0158, 0397, 0415
 Sat Cruiser - 0171
 Sat Partner - 0019, 0023, 0024, 0035, 0045, 0046, 0158, 0398

Sat Team - 0164
 Satcom - 0034, 0160, 0161, 0400, 0411
 SatConn - 0335
 Satec - 0164, 0390
 Satelco - 0010, 0402
 Satford - 0034, 0400
 Satline - 0413
 Satmaster - 0034, 0400
 Satplus - 0154
 Satstar - 0336
 Schacke - 0412
 Schneider - 0028, 0059, 0062, 0154, 0163, 0422
 Schwaiger - 0037, 0039, 0153, 0154, 0160, 0161, 0169, 0390, 0410, 0411
 Scientific Atlanta - 0337
 SCS - 0152
 Sedea Electronique - 0153, 0170
 Seemann - 0026, 0030, 0032, 0402, 0407
 SEG - 0010, 0019, 0028, 0035, 0160, 0398, 0402, 0411, 0421
 Seleco - 0040, 0428
 Septimo - 0169
 Servi Sat - 0013, 0164
 Setec - 0338
 Sharp - 0115
 Siemens - 0033, 0133, 0155, 0339, 0383, 0388, 0416
 Silva - 0045
 SilverCrest - 0340
 Simz - 0341
 Skantin - 0164
 Skardin - 0030, 0407
 Skinsat - 0158
 SKR - 0164
 SKT - 0342
 SKY - 0084, 0167
 Sky Digital - 0055
 Sky New Zealand - 0343
 Sky Television - 0344
 Skymaster - 0003, 0004, 0023, 0138, 0139, 0154, 0160, 0164, 0395, 0411, 0413, 0430
 Skymax - 0054, 0391
 SkySat - 0154, 0158, 0160, 0161, 0164
 Skyvision - 0040
 SL - 0153, 0419
 SM Electronic - 0154, 0164
 Smart - 0108, 0152, 0153, 0164, 0345
 Sogo - 0346
 Sonaecom - 0347
 Sony - 0055, 0156
 SR - 0026, 0050, 0153
 Star Clusters - 0348
 StarTrak - 0349
 StarView - 0350
 Starland - 0164
 Starring - 0035, 0398
 Start Trak - 0019
 Strong - 0010, 0019, 0023, 0028, 0045, 0168, 0170, 0271, 0402
 STVI - 0013
 Sumida - 0026
 Sunny Sound - 0010, 0402
 Sunsat - 0164, 0351, 0407
 Sunstar - 0010, 0026, 0050, 0153, 0402
 Sunstech - 0352
 Super Sat - 0162
 SuperTrack - 0353
 SuperGuide - 0354
 Supermax - 0171
 SVA - 0355
 Swisstek - 0303
 Systec - 0153, 0356
 S-ZWO - 0357
 TaeKwang - 0358
 Tandberg - 0060
 Tandy - 0023
 Tantec - 0020, 0043
 Tattung - 0038
 TBoston - 0359
 TCM - 0028, 0059, 0062, 0379
 Techniland - 0034, 0400
 TechniSat - 0007, 0008, 0009, 0032, 0154, 0156, 0158, 0391, 0408
 Technology - 0168
 Technomate - 0277
 Technosat - 0171
 Technosonic - 0360
 TechnoTrend - 0133
 Technowelt - 0153, 0161, 0169
 Teco - 0026, 0050
 Tee-Comm - 0185
 Telanor - 0021
 Telasat - 0152, 0160, 0161, 0411
 Teleciel - 0412

Telecom - 0164
 Teledirekt - 0390
 Telefunken - 0019, 0056, 0163, 0420
 Teleka - 0023, 0026, 0032, 0158, 0161, 0403,
 0406, 0412, 0419
 Telemaster - 0024
 Telemax - 0048
 Telesat - 0160, 0161, 0411
 Telestar - 0154, 0156, 0158
 Teletech - 0430
 Televes - 0020, 0061, 0153, 0158, 0345
 Telewire - 0040
 Tempo - 0171
 Tevion - 0028, 0059, 0062, 0164
 Thomson - 0006, 0020, 0057, 0060, 0103, 0106,
 0117, 0141, 0150, 0151, 0152, 0156, 0161, 0163,
 0164, 0396
 Thorens - 0039, 0361
 Thorn - 0020
 Tioko - 0037, 0153
 Tokai - 0391
 Tonna - 0020, 0034, 0040, 0158, 0164, 0400
 Topfield - 0126, 0362, 0382
 Toshiba - 0363
 TPS - 0058, 0364
 Tratec - 0365
 Triad - 0031, 0045, 0366, 0397
 Triasat - 0158, 0405
 Triax - 0033, 0056, 0152, 0153, 0158, 0164,
 0405
 Turnsat - 0164
 Tvonics - 0114, 0367, 0368
 Twinner - 0013, 0061, 0153, 0164
 UEC - 0168, 0172
 Uher - 0154
 Uniden - 0415
 Unisat - 0026, 0036, 0153, 0391, 0401
 Unitor - 0027, 0035
 Universum - 0033, 0152, 0155, 0159, 0161,
 0388, 0404, 0415, 0421
 Unnisat - 0369
 Vantage - 0370
 Variosat - 0033, 0155, 0388
 Vector - 0042
 Vega - 0010
 Ventana - 0054, 0391
 Vestel - 0421

Via Digital - 0057
 Viasat - 0173, 0371
 Viewstar - 0372
 Vision - 0373
 Visionic - 0170
 Visiosat - 0035, 0040, 0163, 0164, 0418
 Viva - 0392
 Vivanco - 0064
 Vivid - 0172
 Vortec - 0019, 0374, 0393
 VTech - 0031, 0165, 0397, 0418, 0423
 Watson - 0375
 Wela - 0410
 Welltech - 0154
 WeTeKom - 0154, 0158, 0160
 Wevasat - 0020
 Wewa - 0020
 Winersat - 0035, 0398
 Wintergarten - 0395
 Wisi - 0020, 0031, 0032, 0033, 0155, 0158,
 0161, 0388, 0397, 0403, 0410, 0418
 Woorisat - 0024
 World - 0398
 Worldsat - 0163, 0376
 Xcom Multimedia - 0186
 Xoro - 0377
 Xrypton - 0010, 0402
 XSat - 0164, 0173
 Zaunkönig - 0419
 Zehnder - 0010, 0024, 0027, 0028, 0047, 0105,
 0107, 0152, 0165, 0397, 0402, 0421, 0423
 Zenith - 0167
 Zinwell - 0071
 Zodiac - 0023, 0412
 Zwergnase - 0026

HTS codes : Home Theatre System, Amplifier

Philips - 0000, 0001, 0002, 0003, 0009, 0011,
 0022, 0029, 0030, 0031, 0032, 0039, 0044, 0046,
 0118, 0119, 0120, 0130, 0131, 0132, 0133, 0137,
 0144, 0145, 0146, 0147, 0148, 0189, 0219, 0220
 Aiwa - 0006, 0025, 0160, 0161, 0221, 0222,
 0227, 0247, 0248
 Akai - 0259, 0260
 Alba - 0171
 AMW - 0069

Andersson - 0070	Nakamichi - 0103
Basic Line - 0071	Palladium - 0104
BOSE - 0067, 0068, 0072, 0073, 0074, 0075, 0076, 0077	Panasonic - 0005, 0010, 0012, 0020, 0021, 0033, 0034, 0035, 0036, 0037, 0053, 0054, 0063, 0141, 0142, 0143, 0217, 0218, 0228, 0229, 0240, 0241
Bush - 0051, 0261, 0262, 0263	peekTON - 0105
Celestron - 0078	Pioneer - 0027, 0045, 0047, 0153, 0154, 0155, 0200, 0201, 0256
Centrum - 0079	Redstar - 0106
Clatronic - 0080	Saba - 0172, 0173
Daewoo - 0060	Samsung - 0018, 0056, 0057, 0061, 0158, 0159
Daytek - 0081	Sansui - 0085
Denon - 0126, 0127, 0128, 0129, 0138, 0139, 0264, 0265, 0266	Sanyo - 0015, 0017, 0149, 0150, 0151, 0246
Denver - 0156, 0157, 0176, 0177	Sharp - 0134, 0135, 0136, 0194, 0195, 0196, 0213, 0214, 0234, 0235
Digix Media - 0082	Sony - 0006, 0014, 0023, 0038, 0040, 0113, 0114, 0115, 0116, 0117, 0152, 0182, 0183, 0184, 0185, 0186, 0197, 0202, 0203, 0204, 0205, 0206, 0207, 0208, 0215, 0216, 0230, 0237, 0238, 0239, 0242, 0245, 0253, 0254, 0255
DK Digital - 0007	T+A - 0107
Dmtech - 0083	TCM - 0111, 0273, 0274, 0275, 0276
Dual - 0084	Teac - 0108, 0121, 0122, 0269, 0270, 0271, 0272
Eltax - 0004, 0081	Technics - 0005, 0020, 0112, 0140, 0142, 0211, 0212, 0226
Euroline - 0085	Thomson - 0055, 0059, 0152, 0192, 0193, 0197, 0198, 0199, 0231, 0232, 0233, 0252
Finlux - 0086	Toshiba - 0058
Fintec - 0087	Union - 0066
Futronic - 0088	Universum - 0109
Goodmans - 0174, 0175, 0267, 0268	Xoro - 0110
Harman/Kardon - 0064	Yamaha - 0028, 0052, 0162, 0163, 0257, 0258
Hitachi - 0024, 0166, 0167, 0168	
Hyundai - 0089	
Infotech - 0090	
Jamo - 0091	
JBL - 0092	
JVC - 0008, 0016, 0020, 0050, 0123, 0124, 0125, 0187, 0188, 0190, 0191, 0209, 0210, 0223, 0224, 0225, 0236	
KEF - 0093	
Kenwood - 0019, 0094, 0164, 0165, 0213, 0214, 0243, 0244, 0249, 0250, 0251	
Lenoxx - 0095	
LG - 0026, 0041, 0042, 0043, 0048, 0049, 0062, 0065, 0169, 0170, 0178, 0179, 0180, 0181	
Linn - 0096	
Loewe - 0097	
Lumatron - 0098	
Magnavox - 0011, 0118, 0132	
Medion - 0099	
MiCO - 0100	
Mivoc - 0101	
Mustek - 0013	
NAD - 0102	

11 Index

A

Ambilight	
change settings	20
switch on or off	12
analogue channel	
fine-tune	38
audio balance	19
audio language	19
auto volume leveling	19

B

bass	19
batteries	54, 56
bracket	54
Brightness	17

C

cables	
quality	40
CAM, see also Conditional Access Module	49
channel decoder	50
channel grid	
access and change channels	10
channels	
channel grid	
hide channels	24
rename channels	24
reorder/rearrange channels	23
favourite list	23
install	
automatic	36
manual	37
test reception	39
tune	38
child lock	
ratings lock	28
TV lock	27
clock	29
colour	17
Common Interface	49, 42
composite cable	40, 42

computer format	
technical specifications	53
Conditional Access Module	49, 40, 42
connections	
composite	42
computer network	45
HDMI	42
S-video	42
technical specifications	53
troubleshooting	58
USB	30
connectors	
overview	40
USB	42
contrast	17

D

demo	34
devices	
add to home menu	10
connect	40
remove from home menu	15
watch	10
digital channel	
subtitle language	29
test reception	39
digital radio	32
digital services	
CAM	49
teletext	22, 21
display	
resolution	53
Dual I-II	19
DVB-C and DVB-T	
access	37

E

EasyLink	
buttons	50
disable	51
enable	51
features	50
RC key forwarding	51
TV speakers	52
environmental care	5

F	
factory settings	34
favourite list	
create	23
troubleshooting	56

H	
HDMI cable	
connectors	42
troubleshooting	57
headphone volume	19
Home menu	
access	14
remove devices	15
hue	17

I	
install channels	
automatic	36
manual	37

K	
Kensington lock	52

L	
language	
troubleshooting	56
light sensor	17
location	33
lock	
Kensington	52

M	
menu	
home menu	14
language	14
setup menu	15
teletext	21
troubleshooting	56
Mono/Stereo	19
multimedia	
listen to music	31
watch videos	31

Multimedia	
computer network	45
supported formats	53
music	
digital radio	32
supported formats	53
USB	31

N	
Net TV	
configuration	49
Noise reduction	17

P	
PC	
connect to a network	45
PC mode	17
Personal Identification Number or PIN	
code	56
photos	
slideshow	31
supported formats	53
picture and sound experience bar	17
picture format	
picture format change	19
troubleshooting	56
Pixel Plus	17
power	54, 56

R	
ratings	28
RC key forwarding	51
reception	56
remote control	
key forwarding	51
overview	7
technical specifications	54
troubleshooting	56

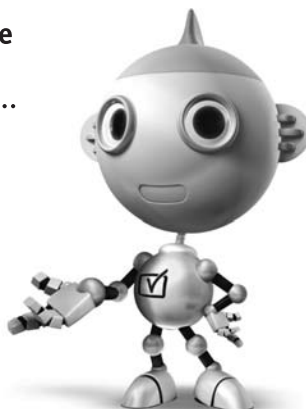
S	
safety	4
settings	
Ambilight	20
picture	17

sound	19	speakers	19
settings	17	standby	9
settings assistant	16	switch channels	9
setup menu	15	switch off	9
sharpness	17	switch on	9
shop mode	33	troubleshooting	56
sleep timer	26	tuner technical specifications	53
smart settings	16	wall mount	4, 54
software			
update	32		
version	32		
sound settings	19		
standby			
troubleshooting	56		
subtitles			
language	29		
surround sound	19		
T		V	
Table of Pages	22	videos	
technical specifications	53	supported formats	53
Teletext		watch	31
dual screen	21	visually impaired	19
enlarge pages	22	volume	
features	21	adjust	10
menu	21	headphones	19
search	22	visually impaired	19
subpages	22		
table of pages	22		
teletext 2.5	22		
use	12		
timer			
sleep timer	26		
tint	17		
transmission			
troubleshooting	56		
treble	19		
troubleshooting	56		
tuner	54		
TV			
access DVB-C and DVB-T networks	37		
adjust volume	10		
controls	, 7		
menu	14		
screen care	5		
software	32		

Information about how to re-tune your TV during the digital TV switchover.

**Keep this user manual safe
– you'll need it.**

.....



Television in the UK is going digital, bringing us all more choice and new services. Starting in late 2007 and ending in 2012, television services in the UK will go completely digital, TV region by TV region.

Please see the next page to find out when your area switches to digital.

Digital UK is the independent, non-profit organisation leading the process of digital TV switchover in the UK. Digital UK provides impartial information on what people need to do to prepare for the move to digital, and when they need to do it.

How the switchover affects your TV equipment:

Your new TV has a digital tuner built in, which means it is ready to receive the Freeview signal by simply plugging it into your aerial socket (check if you can get digital TV through your aerial now, or whether you'll have to wait until switchover, at www.digitaluk.co.uk).

When the TV switchover happens in your area, there are at least two occasions when you will need to re-tune your TV in order to continue receiving your existing TV channels, and also to pick up new ones.

get set for digital 

Digital UK, the body leading the digital TV switchover, will advise you when you need to re-tune during the switchover. If you choose to connect your TV to satellite or cable with a digital box then it will not be affected by switchover, and you won't need to re-tune.

If you have any questions, please contact your equipment supplier or call Digital UK on ... 0845 6 50 50 50 or visit www.digitaluk.co.uk

How to re-tune:

To find out how to re-tune your TV, check this user manual for details.

If you do not re-tune your channels when advised to do so by Digital UK, you may lose some or all of your channels until you do re-tune. You should re-tune your TV every few months to check for any new channels.

If you are missing any channels, it may be that they are not available in your area, or that your aerial needs upgrading.

When does switchover happen?

*Copeland switches on October 17, 2007

The exact date you switch depends on the transmitter you are served by. To check when you switch, go to Digital UK's postcode checker on www.digitaluk.co.uk

Check your ITV news service or look at Teletext page 106 to see what TV region you're in.

Visit us at digitaluk.co.uk
Call us on 0845 6 50 50 50†

† Calls charged at BT rate of 3p per minute daytime and 1p per minute evenings and weekends. Rates may vary for calls from non-BT lines.

